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TM 8-621

WAR DEPARTMENT TECHNICAL MANUAL

U.S. Dept of Army

LAMP, THERAPEUTIC,
MERCURY ARC, AIR-COOLED,
MOBILE, COMPLETE, 110-VOLT,
60-CYCLE (ITEM 7126005)

WAR DEPARTMENT • 25 SEPTEMBER 1944

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TM 8-621, Lamp, Therapeutic, Mercury Arc, Air-Cooled, Mobile, Complete, 110-Volt, 60-Cycle (Item 7126005), is published for the information and guidance of all concerned.

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BY ORDER OF THE SECRETARY OF WAR:

G. C. MARSHALL,
Chief of Staff.

OFFICIAL:

J. A. ULIO,
*Major General,
The Adjutant General.*

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For explanation of symbols, see FM 21-6.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1. SCOPE. a. These instructions are published for the information and guidance of the personnel to whom this equipment is assigned. They contain information on the operation and maintenance of the equipment, together with illustrations identifying the component parts of the equipment. They apply only to lamp, therapeutic, mercury arc, air-cooled, mobile, complete, 110-volt, 60-cycle, Medical Department Item No. 7126005, and are arranged in three chapters: Chapter 1, Introduction; Chapter 2, Operating Instructions; Chapter 3, Maintenance Instructions.

b. All service parts are listed in the appendix.

2. RECORDS. There are no forms or records which are required to be kept in conjunction with equipment.

Section II. DESCRIPTION AND DATA

3. DESCRIPTION. Lamp, therapeutic, mercury arc, air-cooled, mobile, is an ultraviolet ray generator for irradiating areas of the body. The ultraviolet rays are produced by a self-starting, alternating-current, hot cathode lamp made of quartz containing a minute quantity of mercury in vacuum. The lamp is so constructed that the distance and direction from the ultraviolet ray source to the surface to be irradiated is adjustable.

4. DATA. a. **Electrical characteristics.** (1) Voltage—100 to 125 volts.

(2) Frequency—60 cycles.

(3) *Line current.* (a) Burdick Model No. QA-450-NH and General Electric No. P2013 Model F—approximately 6 amperes.

(b) Hanovia Model No. S-2307-A—approximately 18 amperes.

(4) Line wiring specifications—No. 14 conductors for power service up to 100 feet.

(5) Fuse size required on electric current supply line—30 amperes.

b. **Radiation intensity.** The lamp produces ample ultraviolet radiation,

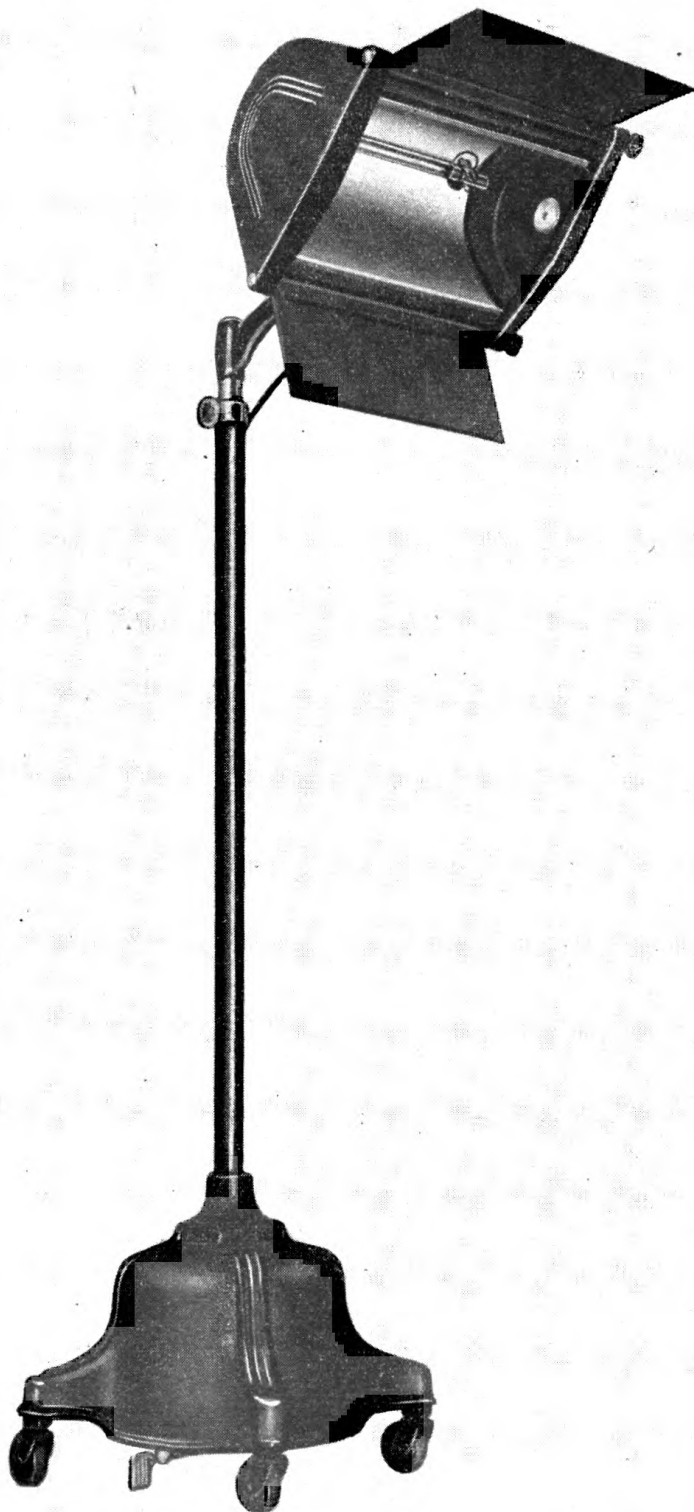


Figure 1. Lamp, therapeutic, mercury arc, air-cooled, mobile, complete, 110-volt, 60-cycle.

at a distance of 30 inches from the burner to the patient, to cause a first-degree erythema (mild reddening) on the average person after an exposure of 30 seconds.

c. Manufacturers. (1) Burdick Model No. QA-450-NH—the Burdick Corporation, Milton, Wisconsin.

(2) General Electric No. P2013 Model F—the General Electric X-Ray Corporation, Chicago, Illinois.

(3) Hanovia Model No. S-2307-A—the Hanovia Chemical and Manufacturing Company, Newark, New Jersey.

CHAPTER 2

OPERATING INSTRUCTIONS

Section I. GENERAL

5. SCOPE. This chapter contains information for the guidance of the personnel responsible for the operation of this equipment.

Section II. SERVICE UPON RECEIPT OF EQUIPMENT

6. NEW EQUIPMENT. a. Unpacking. (1) Open shipping boxes carefully.

(2) Remove packing materials.

(3) Lift assemblies and parts from the boxes and unwrap.

b. Assemblies. The lamp is issued broken down into the following assemblies:

(1) Base upright assembly.

(2) Burner housing assembly.

(3) Burner assembly.

c. Assembling the Burdick model. (1) Screw the casters into the sockets on the bottom of the cast iron base, 7R03608 (fig. 2), and set on the floor.

(2) Remove the two wing nuts from the screws on the bottom of the base housing, 7R03612 (fig. 2).

(3) Place the base housing on the cast iron base in such a manner as to allow the two screws from which the wing nuts were removed to go through the two holes provided for this purpose in the cast iron base.

(4) Replace the two wing nuts on the screws from which they were removed on the bottom side of the cast iron base. Draw the wing nuts up tight.

(5) Lock the cast iron carriage, 7R03656 (fig. 2), of the upright column assembly on the upright column, 7R03640 (fig. 2), by tightening the vertical track locking knob, 7R03668 (fig. 2).

(6) Raise the upright column assembly so that the bottom end may be placed in the hole provided in the cast iron cover plate, 7R03616

- | | | | |
|-------------|--|-------------|--|
| 1. 7R03608 | Base, cast iron | 14. 7R03652 | Cable, steel, stranded |
| 2. 7R03618 | Plate, cover, front panel, sheet metal | 15. 7R03710 | Ventilator, burner housing top, complete |
| 3. 7R03720 | Handlebar | 16. 7R03678 | Fork |
| 4. 7R03638 | Switch, toggle, line, 7/16-inch shank | 17. 7R03704 | Plate, side |
| 5. SR00398 | Cord, 3-conductor, No. 14, asbestos-packed | 18. 7R03702 | Housing, burner, sheet metal |
| 6. 7R03668 | Knob, locking, vertical track | 19. SR00396 | Nut, cap, 5/16 x 18, hex |
| 7. 7R03672 | Arm, supporting, complete | 20. 7R03712 | Shutter |
| 8. 7R03670 | Knob, supporting arm, plastic | 21. 7R03642 | Collar, upright column |
| 9. 7R03656 | Carriage, cast iron | 22. 7R03640 | Column, upright |
| 10. 7R03658 | Bearing, ball, nice 402-2 | 23. 7R03616 | Plate, cover, cast iron, complete |
| 11. 7R03644 | Track, upright, complete | 24. 7R03612 | Housing, base, sheet metal, complete |
| 12. 7R03650 | Fork, pulley | 25. 7R03610 | Caster, swivel, 3-inch wheel |
| 13. 7R03646 | Pulley, wheel | | |

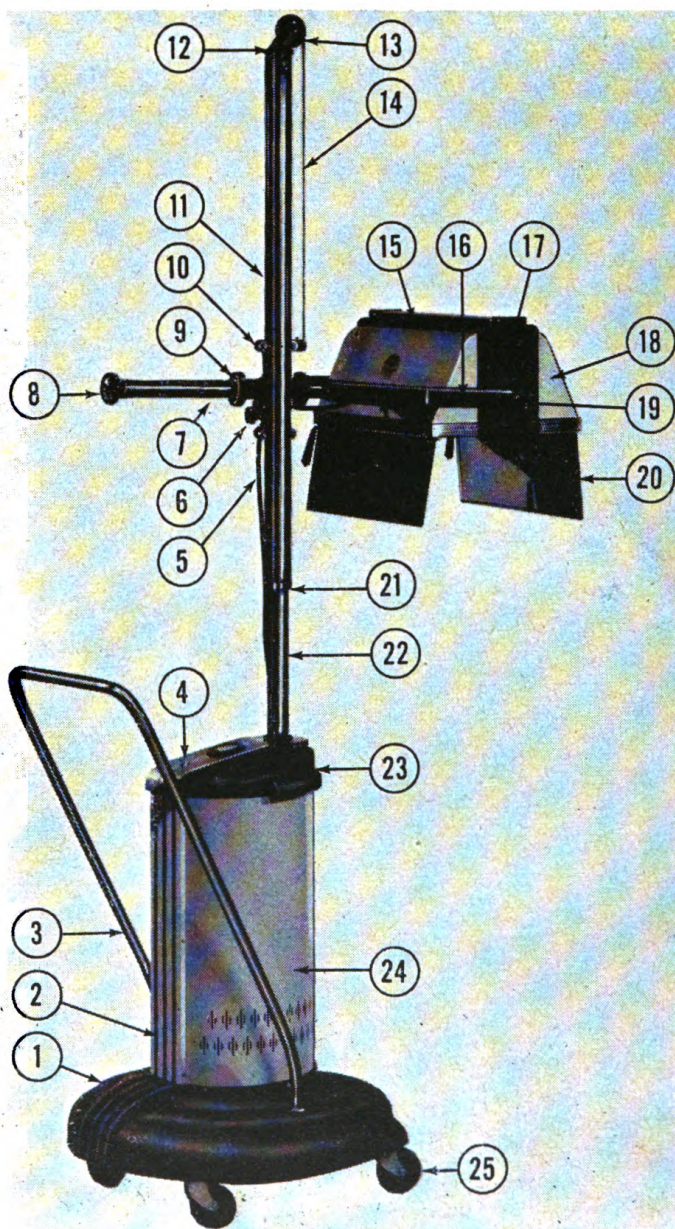


Figure 2. Item 7126005 lamp, therapeutic, mercury arc, air-cooled, mobile, complete, 110-volt, 60-cycle; Burdick model.

(fig. 2). Slide the upright column down until it rests on the cast iron base.

(7) Tighten the setscrew on under side of the cast iron base against the lower end of the upright column.

(8) Remove the supporting arm plastic knob, 7R03672 (fig. 2), of the burner housing assembly by loosening the setscrew in the knob and unscrewing the knob. Insert the supporting arm in the ball-bearing roller track of the cast iron carriage, 7R03656 (fig. 2). The "Burdick"

- | | | | |
|------------|--|-------------|--|
| 1. 7R03715 | Clamp, shutter rod | 7. 7R03712 | Shutter |
| 2. 7R03686 | Reflector, complete | 8. 7R03704 | Plate, side |
| 3. 7R03680 | Lever, friction locking, plastic | 9. 7R03690 | Clip, burner |
| 4. 7R03700 | Measure, tape, steel | 10. 7R03602 | Burner, Burdick HB-455 |
| 5. 7R03706 | Plate, side, with spacer nut, complete | 11. SR00401 | Nut, thumb, battery terminal, 6 x 32 brass |
| 6. 7R03714 | Rod, shutter, complete | 12. 7R03692 | Screw, thumb, 6-32 x $\frac{3}{4}$ inch |

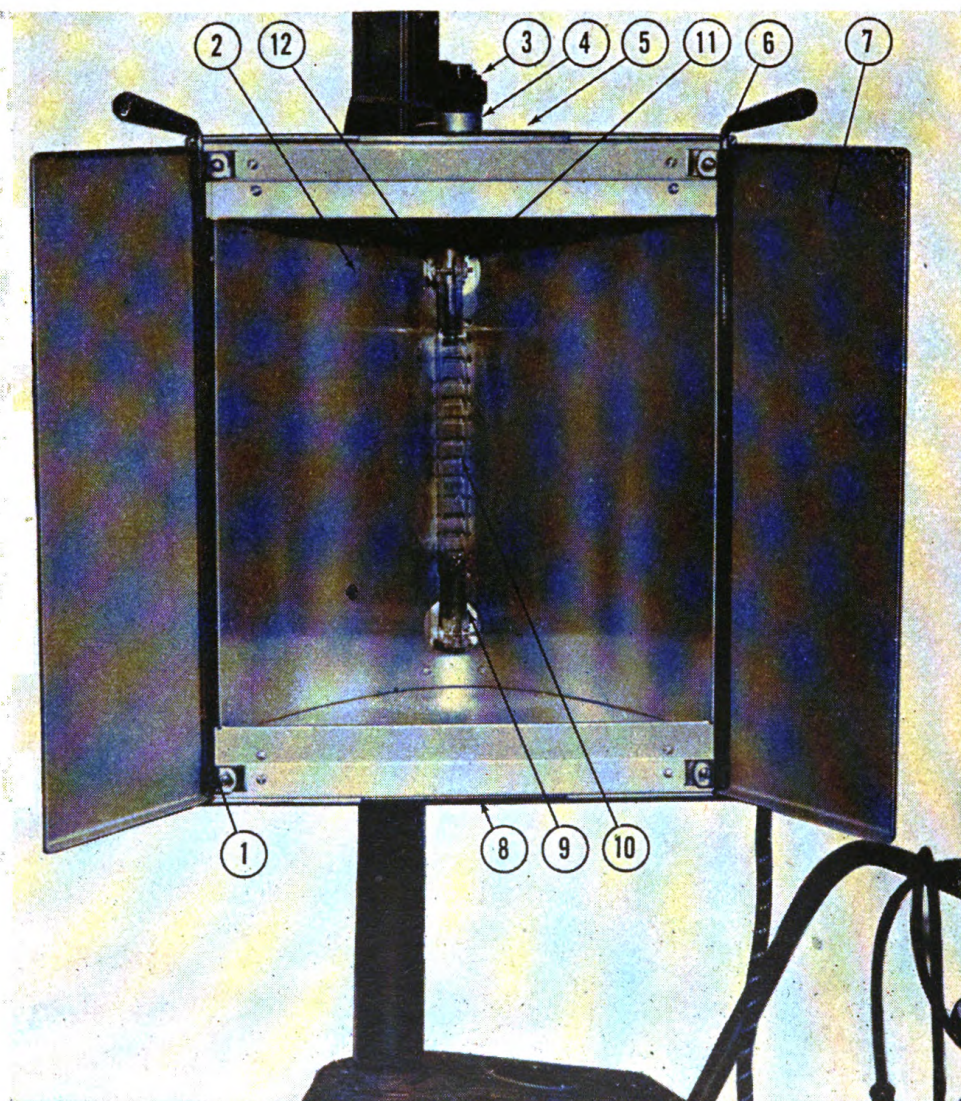


Figure 3. Burner housing assembly, Burdick model—bottom view.

- | | | | |
|-------------|--|-------------|-------------------------------------|
| 1. 7R03948 | Spring, adjustable upright | 13. 7R04006 | Terminal, wire clamp |
| 2. 7R03942 | Upright, stationary | 14. 7R03936 | Spring, strain release |
| 3. 7R03944 | Upright, adjustable | 15. 7R03934 | Bushing, plastic |
| 4. 7R03946 | Collar, stationary upright | 16. SR00076 | Cord, Neoprene, No. 14, 3-conductor |
| 5. 7R03910 | Caster, swivel | 17. SR00026 | Plug, male, small, 2-prong |
| 6. SR00025 | Plug, female, 2-prong, G.E. GC 363 | 18. SR00317 | Plug, ground, female |
| 7. 7R03938 | Hook, burner cord | 19. SR00316 | Plug, ground, male |
| 8. SR00075 | Cord, Neoprene, No. 14, 2-conductor | 20. 7R03908 | Base, cast iron |
| 9. 7R03940 | Bushing, plastic | 21. 7R03922 | Autotransformer, 400-watt |
| 10. SR00318 | Nut, lock, conduit, 1/2-inch | 22. 7R03954 | Plate, friction |
| 11. 7R04004 | Clamp, cable | 23. 7R03952 | Arm, supporting |
| 12. SR00332 | Terminal, wire clamp, O.D. 1/2-inch, 3/16-inch hole, 1 inch long | | |

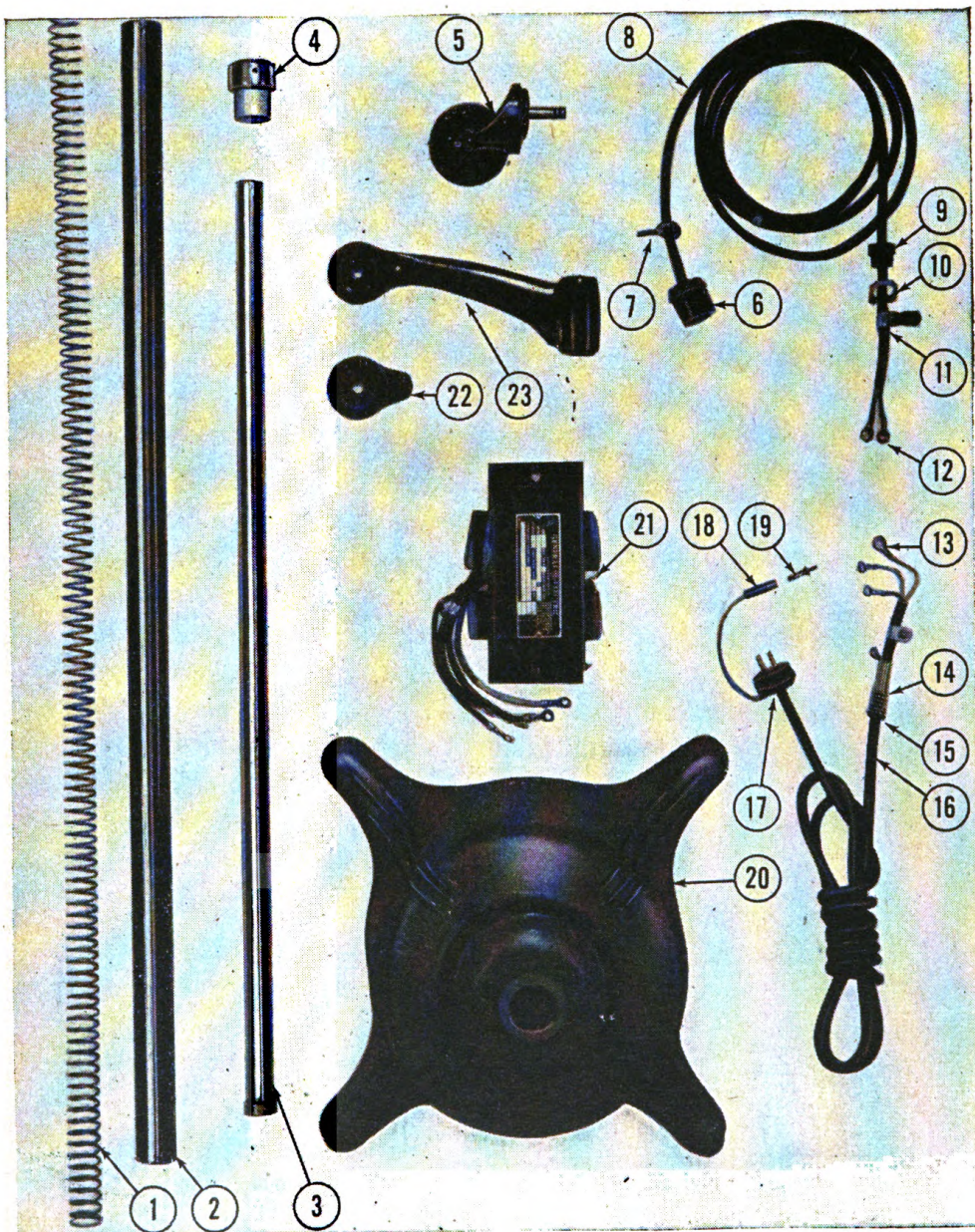
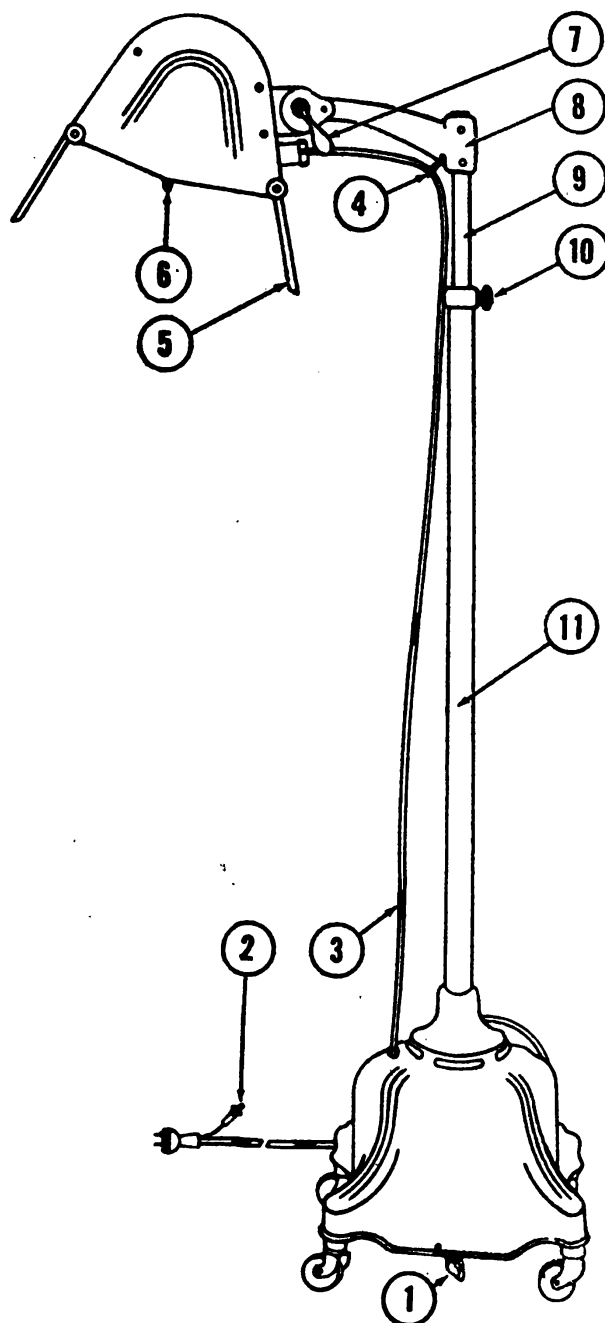


Figure 4. Parts for lamp, therapeutic, mercury arc, air-cooled, mobile, complete, 110-volt, 60-cycle, General Electric model F.

- | | | | |
|------------|-------------------------------------|-------------|-----------------------------------|
| 1. 7R03914 | Pedal, line taggie switch | 7. 7R03956 | Lever, locking stud |
| 2. SR00317 | Plug, ground, female | 8. 7R03952 | Arm, supporting |
| 3. SR00075 | Cord, Neoprene, No. 14, 2-conductor | 9. 7R03944 | Upright, adjustable |
| 4. 7R03938 | Hook, burner cord | 10. 7R03950 | Knob, locking, adjustable upright |
| 5. 7R03978 | Shutter | 11. 7R03942 | Upright, stationary |
| 6. 7R03988 | Measure, tape, steel | | |



*Figure 5. Lamp, therapeutic, mercury arc, air-cooled, mobile, complete.
110-volt, 60-cycle, General Electric model F.*

trademark on the supporting arm should be on the outside. Replace supporting arm plastic knob and tighten setscrew in knob.

(9) Remove the hexagon nut, flat washer, and spacer bushing from the other end of the supporting arm, 7R03672 (fig. 2). Attach burner housing assembly to supporting arm by placing the end of the supporting arm through the center of the fork, 7R03678 (fig. 2); replace spacer bushing, washer, and hexagon nut. Draw up hexagon nut tightly.

(10) To place the burner in the burner housing, proceed as follows:

(a) Loosen the battery terminal thumb nuts, SR00401 (fig. 3), on the burner clips, 7R03690 (fig. 3).

(b) Slide the end of the burner with the flexible wire lead into the right-hand burner clip, and push it through far enough so that the opposite end of the burner clears the other burner clip.

(c) Slide the burner back so that it is evenly spaced in the two burner clips, and tighten the battery terminal thumb nuts.

(d) Attach the flexible wire lead from the burner to the binding post on the reflector near the right-hand burner clip.

(e) Remove the protective paper covering from the burner. Do not touch the quartz tube with the fingers.

d. Assembling the General Electric model. (1) Set the base assembly on its four casters.

(2) Make up the upright assembly by placing the adjustable upright spring, 7R03948 (fig. 4), inside the stationary upright, 7R03942 (figs. 4 and 5). Press the flanged end of the adjustable upright, 7R03944 (figs. 4 and 5), against the spring and force it about halfway into the stationary upright. Slip the stationary upright collar, 7R03946 (fig. 4), over the adjustable upright, and fasten it to the stationary upright by tightening the setscrews provided. Lock the adjustable upright by tightening the adjustable upright locking knob, 7R03950 (fig. 5).

(3) Place the bottom of the upright assembly in the socket of the cast iron base and tighten the Allen head setscrews with the Allen set-screw wrench, SR00333 (fig. 6), provided.

(4) Attach the supporting arm, 7R03952 (fig. 5), with the burner housing attached, by slipping it over the end of the adjustable upright. Line up the holes in the supporting arm with those at the end of the adjustable upright. Fasten the supporting arm in place by tightening the two fillister head screws provided.

(5) Insert the cord burner hook, 7R03938 (fig. 5), into the hole on the under side of the supporting arm, and secure it in place by tightening the setscrews provided.

(6) To place the burner in the burner housing, proceed as follows:

(a) Place the burner, 7R03902 (fig. 7), in position by carefully push-

- | | | | |
|-------------|--|-------------|---|
| 1. 7R03902 | Burner, G.E. UA 2682 | 20. 7R03992 | Washer, O.D. $1\frac{9}{32}$ -inch, I.D. $\frac{3}{8}$ -inch, $\frac{1}{32}$ -inch thick, brass |
| 2. 7R03996 | Plug, male, 2-prong, Hubbell P-646 | 21. SR00327 | Washer, No. 6, brass |
| 3. SR00079 | Wire, Flamenol, No. 14, stranded, white | 22. SR00328 | Washer, No. 8, brass |
| 4. SR00325 | Terminal, wire clamp, I.D. $\frac{3}{8}$ -inch, $\frac{3}{16}$ -inch hole, 1 inch long | 23. SR00329 | Washer, No. 9, brass |
| 5. 7R03956 | Lever, locking stud | 24. SR00152 | Washer, lock, No. 8 |
| 6. 7R03958 | Stud, locking | 25. 7R03998 | Spacer, O.D. $\frac{1}{2}$ inch, I.D. $\frac{5}{32}$ -inch thick, fiber |
| 7. SR00324 | Screw, 8-32 x $\frac{3}{4}$ inch, fl. H.M. | 26. 7R03984 | Spring, shutter |
| 8. SR00115 | Screw, 8-32 x $\frac{7}{8}$ inch, R.H.M. | 27. 7R04000 | Thumbscrew, 4-36 x $1\frac{1}{16}$ -inch |
| 9. SR00326 | Screw, 6-32 x $\frac{7}{8}$ inch, R.H.M. | 28. 7R03976 | Clip, burner, quartz tube |
| 10. SR00103 | Screw, 6-32 x $\frac{1}{8}$ inch, R.H.M. | 29. 7R04002 | Nut, round, 4 x 36 |
| 11. SR00321 | Screw, 10-32 x $\frac{7}{8}$ inch, fill. H.M. | 30. 7R03986 | Spring, quartz tube burner clip |
| 12. SR00319 | Screw, 10-32 x $\frac{3}{16}$ inch, fill. H.M. | 31. SR00333 | Wrench, setscrew, Allen, $\frac{5}{16}$ inch-18 |
| 13. SR00323 | Screw, 8-32 x 1 inch, fill. H.M. | 32. 7R03982 | Knob, shutter |
| 14. SR00322 | Screw, 8-32 x $\frac{7}{8}$ inch, fill. H.M. | 33. 7R03988 | Measure, tape, steel |
| 15. SR00331 | Screw, 8-32 x $\frac{1}{2}$ inch, fill. H.M. | 34. 7R03950 | Knob, locking, adjustable upright |
| 16. SR00236 | Screw, 6-32 x $\frac{1}{4}$ inch, B.H.M. | 35. 7R03972 | Spring, clip |
| 17. 7R03994 | Screw, 4-36 x $\frac{1}{4}$ inch, B.H.M. | 36. 7R03974 | Clip, burner end |
| 18. SR00185 | Nut, 8-32, hex, brass | 37. 71390 | Spectacles, ultraviolet |
| 19. 7R03990 | Washer, O.D., $1\frac{9}{32}$ -inch, I.D. $\frac{3}{8}$ -inch, $\frac{1}{16}$ -inch thick, fiber | | |

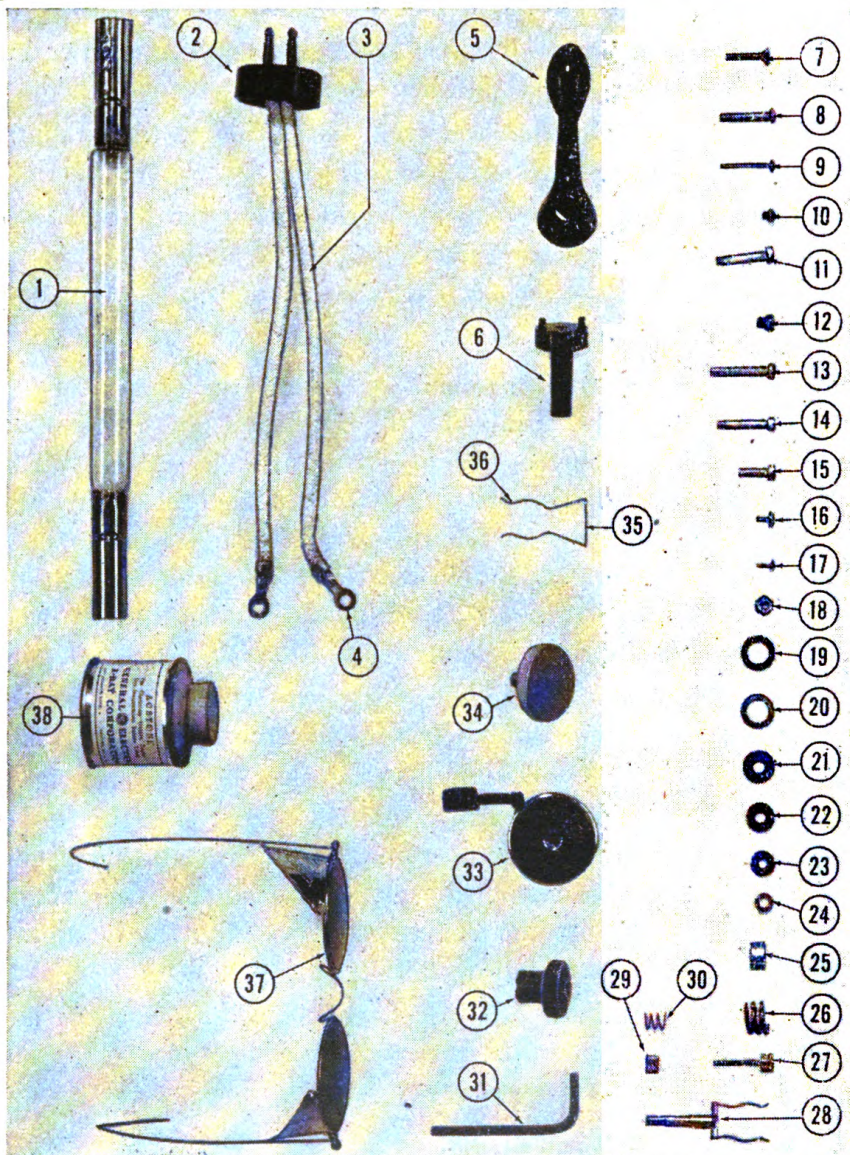


Figure 6. Parts for lamp, therapeutic, mercury arc, air-cooled, mobile, complete, 110-volt, 60-cycle, General Electric model F.

1. 7R03978 Shutter
2. 7R03902 Burner, G.E. UA 2682
3. 7R03982 Knob, shutter
4. 7R03988 Measure, tape, steel

5. 7R03976 Clip, burner, quartz tube
6. 7R03974 Clip, burner end
7. 7R03968 Reflector, burner

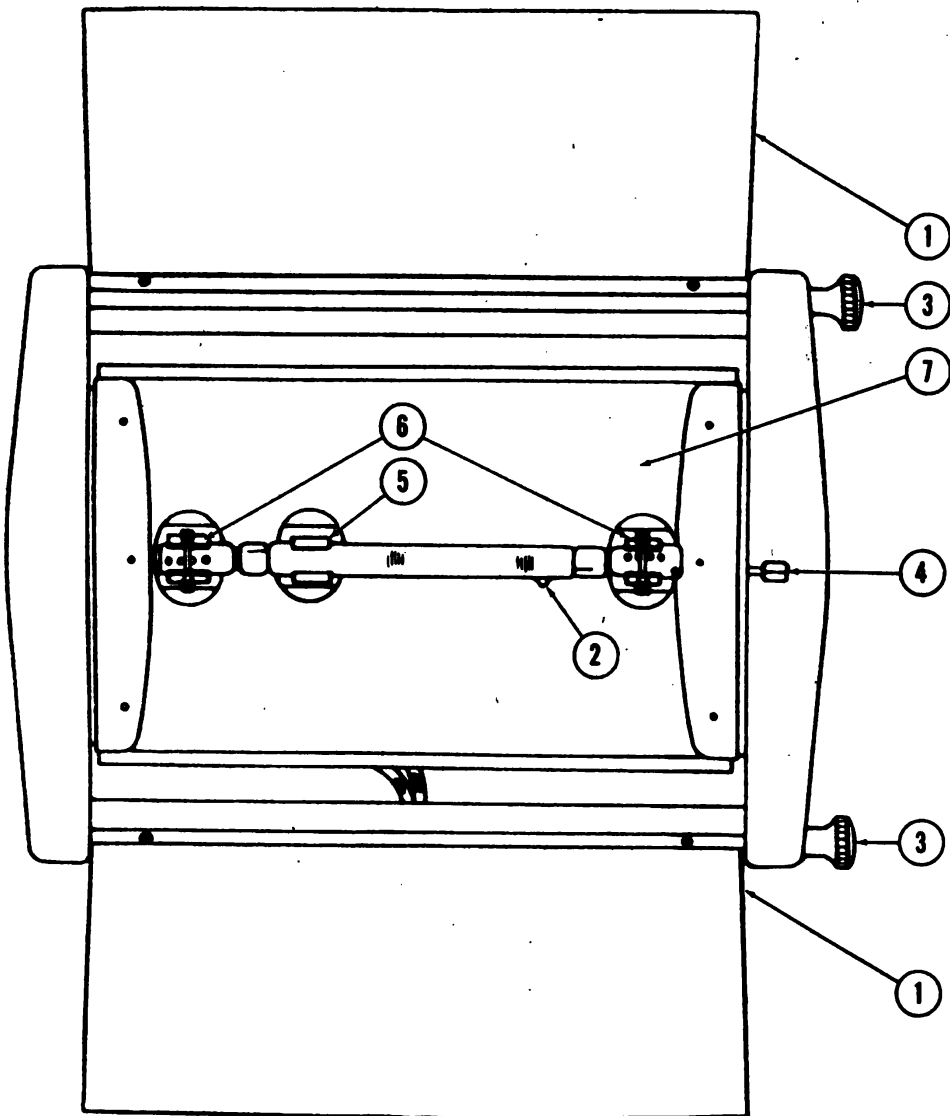


Figure 7. Burner housing, General Electric model—bottom view.

ing it into the burner end clips, 7R03974 (fig. 7), and the quartz tube burner clip, 7R03976 (fig. 7). The seal-off tip of the burner (fig. 7 (2)) is placed at the end away from the quartz tube burner clip. (Note that the quartz tube burner clip does not make contact with any metallic part.)

(b) Place the thumbscrew, 7R04000, in the slots of the burner end clips, attach the round nuts, 7R04002, and tighten so that proper contact will be made.

- | | | | |
|-------------|---|-------------|--|
| 1. 7R04252 | Base, cast iron | 19. 7R04300 | Cable, stranded, steel |
| 2. SR00075 | Cord, Neoprene, No. 14, two-conductor | 20. 7R04310 | Housing, pulley wheel, cast iron |
| 3. 7R04214 | Plate, base cover | 21. 7R04302 | Rod, locking carriage, steel, $\frac{3}{8}$ -inch dia., 39-inch long |
| 4. 7R04218 | Washer, O.D. $3\frac{1}{8}$ -inch, I.D. $1\frac{1}{2}$ -inch $\frac{1}{8}$ inch thick | 22. 7R04260 | Plate, right-hand side carriage |
| 5. 7R04306 | Collar, locking carriage rod | 23. 7R04298 | Knob, burner housing rail locking |
| 6. SR00195 | Plug, female, twist lock, Hubbell | 24. 7R04270 | Axle |
| 7. SR00191 | Plug, male, twist lock, Hubbell XT 7465 | 25. 7R04318 | Spacer, burner housing rail |
| 8. 7R04286 | Hook, burner cable | 26. 7R04280 | Knob, vertical carriage locking |
| 9. 7R04354 | Trunnion, clamp | 27. SR00075 | Cord, Neoprene, No. 14, two-conductor |
| 10. 7R04362 | Shutter | 28. 7R04304 | Upright, tube, 6 feet |
| 11. 7R04372 | Knob, shutter | 29. 7R04210 | Switch, line toggle, Hubbell P 1650 |
| 12. 7R04360 | Knob, trunnion locking | 30. 7R04208 | Switch, canopy rotary starter, $\frac{3}{8}$ -inch shank, Leviton |
| 13. 7R04334 | Hood, sheet metal | 31. 7R04216 | Plate, switch |
| 14. 7R04358 | Plate, friction, trunnion clamp | 32. 7R04220 | Cylinder, base housing |
| 15. 7R04324 | Fork | 33. SR00075 | Cord, Neoprene, No. 14, two-conductor |
| 16. 7R04314 | Block, rail support | 34. 7R04212 | Caster, swivel, 3-inch wheel |
| 17. 7R04322 | Knob, rail-supporting block locking | | |
| 18. 7R04316 | Rail, burner housing | | |

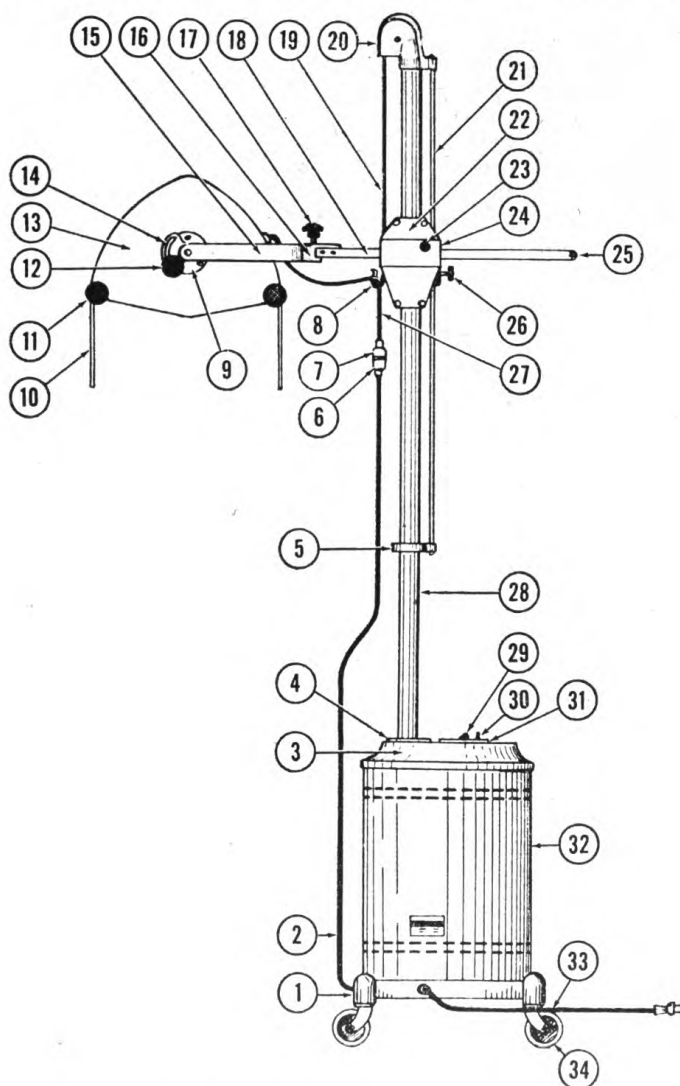


Figure 8. Lamp, therapeutic, mercury arc, air-cooled, mobile, complete, 110-volt, 60-cycle, Hanovia model.

(c) Remove the protective paper cover from the burner. Do not touch quartz tube with the fingers.

(7) Set the steel tape measure, 7R03988 (fig. 6), in operating position by pulling out the steel tape and placing it in the slot of the burner housing directly below the tape reel (fig. 7 (4)).

e. Assembling the Hanovia model. (1) Slip the casters into the sockets on the bottom of the cast iron base, 7R04252 (fig. 8). Set the base assembly on its four casters.

(2) Lock the carriage (fig. 8 (22)) on the upright tube, 7R04304 (fig. 8), of the upright assembly by tightening the vertical carriage locking knob, 7R04280 (fig. 8).

(3) Raise the upright assembly so that the bottom end may be placed in the hole provided in the base cover plate, 7R04214 (fig. 8). Lower the upright assembly until it seats.

(4) Remove the two screws located at the extreme end of the burner housing rail (fig. 8 (25)) of the burner housing assembly. Insert the burner housing rails, 7R04316 (fig. 8), horizontally into the wheel track of the carriage (fig. 8 (22)) until the screw holes project on the opposite side of the carriage. Replace the two screws and tighten. If the burner housing rail does not move freely, loosen the rail-locking knob, 7R04322 (fig. 8).

(5) To install the burner, proceed as follows:

(a) Place the burner, 7R04336 (fig. 9), in the burner supports (fig. 9 (3)) by grasping the metal end of the burner with the right hand in a position such that the fitting seal and the slotted metal fittings (fig. 9 (5)) are toward the lamp. With the left hand push and hold to the left the left-hand burner support (fig. 9). Insert the right end of the burner into the right-hand burner support, taking care that the right slotted metal burner fitting engages the Y-shaped guide. Fit the left-hand burner support over the left end of burner. Release the left-end support and then the burner.

(b) Insert the burner pin leads (fig. 9 (7)) into their respective porcelain terminal blocks, 7R04346 (fig. 9).

(c) Grasp the burner end shield, 7R04338 (fig. 9), with the hand and place the fingers near the flanged edges. Slip the burner end shields over the ends of the burner and the beaded leads. Squeeze the flanged edges of the shield together with the fingers and insert the end burner shield flanges into the opening in the lamp reflector. Release the fingers so that the flanges engage the reflector.

f. Prestarting instructions. (1) Clean the burner and reflector as outlined in paragraphs 22 and 23.

(2) Before operating the lamp for the first time from any electric

- | | | | |
|------------|---------------------------|------------|--|
| 1. 7R04338 | Shield, burner end | 5. | Slotted fitting issued as part of 7R04336 |
| 2. 7R04340 | Reflector, burner | | Burner, Hanovia S-20251 |
| 3. 7R04342 | Bracket, burner, complete | 6. 7R04346 | Block, terminal, porcelain |
| 4. 7R04336 | Burner, Hanovia S-2051 | 7. | Burner pin leads issued as part of 7R04336 |
| | | | Burner, Hanovia S-20251 |

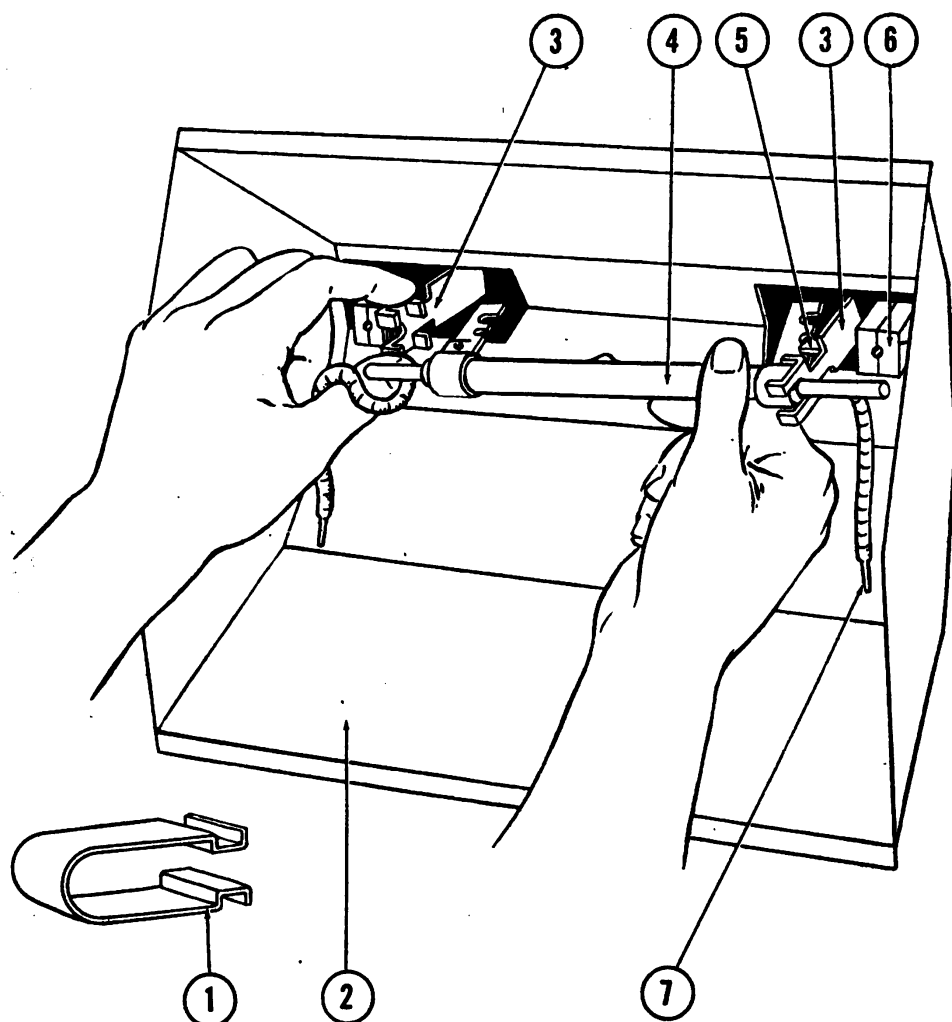


Figure 9. Burner housing, Hanovia model—bottom view.

current supply source, determine the actual voltage at the receptacle through the use of a voltmeter, and make certain that both voltage and frequency correspond to that stamped on the nameplate. The lamp is adjusted at the factory for operation on 115-volt supply. If the supply voltage differs from this value by more than plus-or-minus 4 volts, the lamp will give better service if adjustment is made for the supply voltage. A terminal board with voltage adjustment taps is provided on the transformer located in the base assembly. When making voltage adjustment, it is only necessary to change one wire—the line connections to the transformer terminal board. After making the lamp voltage adjust-

- | | | | |
|-------------|--|-------------|---|
| 1. 7R03926 | Board, terminal | 13. SR00330 | Nut, 10 x 32, hex |
| 2. 7R03920 | Bracket, starting relay | 14. SR00152 | Washer, lock, No. 8 |
| 3. SR00313 | Screw, $\frac{5}{16}$ -18 x $\frac{1}{2}$ inch, R.H.M. | 15. SR00151 | Washer, lock, No. 10 |
| 4. SR00144 | Screw, 10-32 x $\frac{1}{4}$ inch, R.H.M. | 16. SR00156 | Washer, lock, $\frac{5}{16}$ -inch |
| 5. SR00045 | Screw, 10-32 x $\frac{3}{8}$ inch, R.H.M. | 17. SR00294 | Washer, shakeproof, No. 8, internal teeth |
| 6. SR00300 | Screw, 10-32 x $\frac{1}{2}$ inch, R.H.M. | 18. SR00328 | Washer, No. 8, brass |
| 7. SR00010 | Screw, 8-32 x $\frac{3}{8}$ inch, R.H.M. | 19. SR00303 | Washer, No. 10, brass |
| 8. SR00040 | Screw, 6-32 x $\frac{1}{4}$ inch, R.H.M. | 20. 7R03928 | Condenser, with terminals |
| 9. SR00264 | Screw, 10-32 x $\frac{1}{4}$ inch, B.H.M. | 21. 7R03914 | Pedal, line toggle switch |
| 10. 7R03930 | Screw, line toggle switch pedal | 22. 7R03916 | Switch, line toggle |
| 11. 7R03932 | Spacer, O.D. $\frac{1}{2}$ inch, I.D. $\frac{3}{16}$ inch, $\frac{7}{16}$ inch thick | 23. 7R03918 | Relay, starting |
| 12. SR00185 | Nut, 8-32, hex, brass | | |

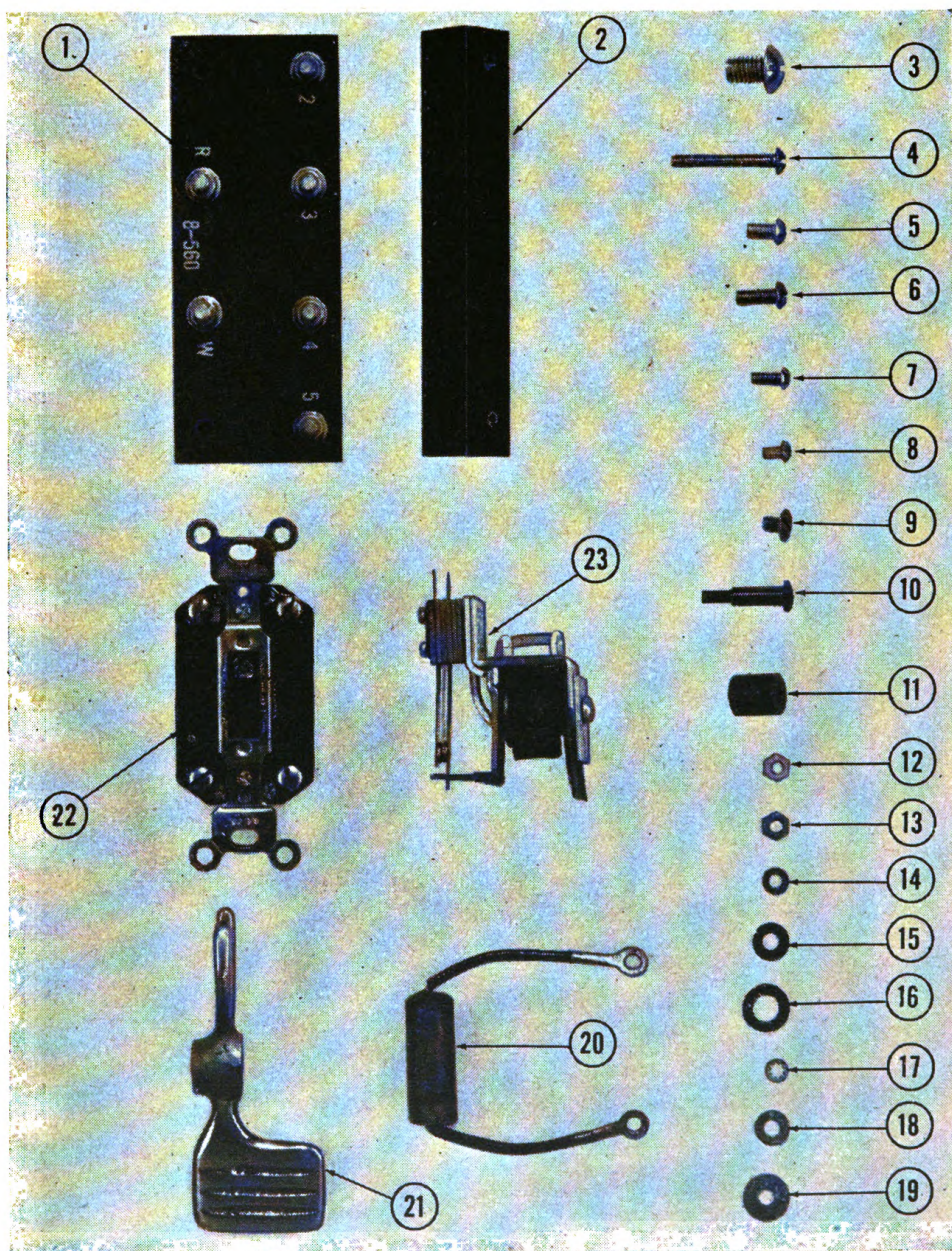


Figure 11. Parts for lamp, therapeutic, mercury-arc, air-cooled, mobile complete, 110-volt, 60-cycle, General Electric model F.

ment, tighten all terminal nuts. Make the lamp voltage adjustment as follows:

(a) *Burdick model.* Remove the front panel cover plate, 7R03618 (fig. 2), by unfastening the screws holding it in place so as to make the

- | | | | |
|------------|------------------------------|------------|-----------------|
| 1. 7R03968 | Reflector, burner | 6. 7R03964 | Frame, left end |
| 2. 7R03980 | Rod, shutter | 7. 7R03960 | Bracket, swivel |
| 3. 7R03970 | Board, burner clip, asbestos | 8. 7R03912 | Plate, cover |
| 4. 7R03978 | Shutter | 9. 7R03966 | Cover |
| 5. 7R03962 | Frame, right end | | |

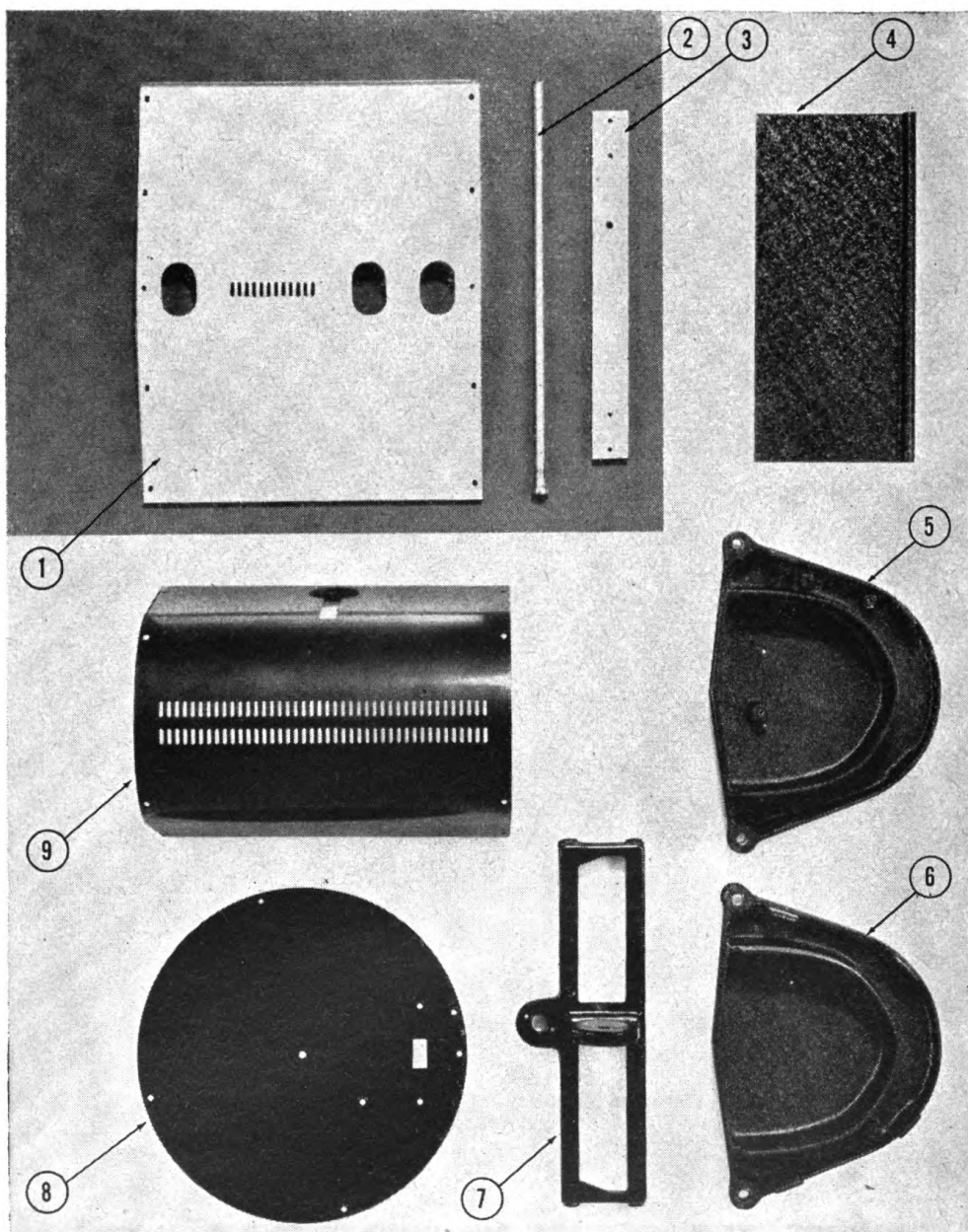


Figure 11. Parts for lamp, therapeutic, mercury-arc, air-cooled, mobile complete, 110-volt, 60-cycle, General Electric model F.

plastic terminal board, 7R03634 (fig. 14), accessible. Connect the line lead (fig. 14 (6)) to the proper terminal tap as indicated in the table below:

<i>Actual line voltage</i>	<i>Place lead on terminal tap</i>
100-104	2
104-111	3
111-118	4
118-125	5

Replace the front panel cover by fastening with the screws that were removed.

(b) *General Electric model.* Turn the lamp on its side. Remove the toggle switch pedal, 7R03914 (fig. 10), and the cover plate, 7R03912 (fig. 11), by unfastening the screws holding them so as to make the terminal board, 7R03926 (fig. 10), accessible. Connect the lead stamped

- | | | | |
|------------|---|------------|--|
| 1. 7R04208 | Switch, canopy rotary starter,
3/8-inch shank, Leviton | 3. 7R04234 | Spacer, fiber, O.D. 3/8-inch,
1 1/2-inch long |
| 2. 7R04232 | Board, terminal, transformer,
complete | 4. 7R04210 | Switch, line toggle, Hubbell P 1650 |
| | | 5. 7R04230 | Transformer |

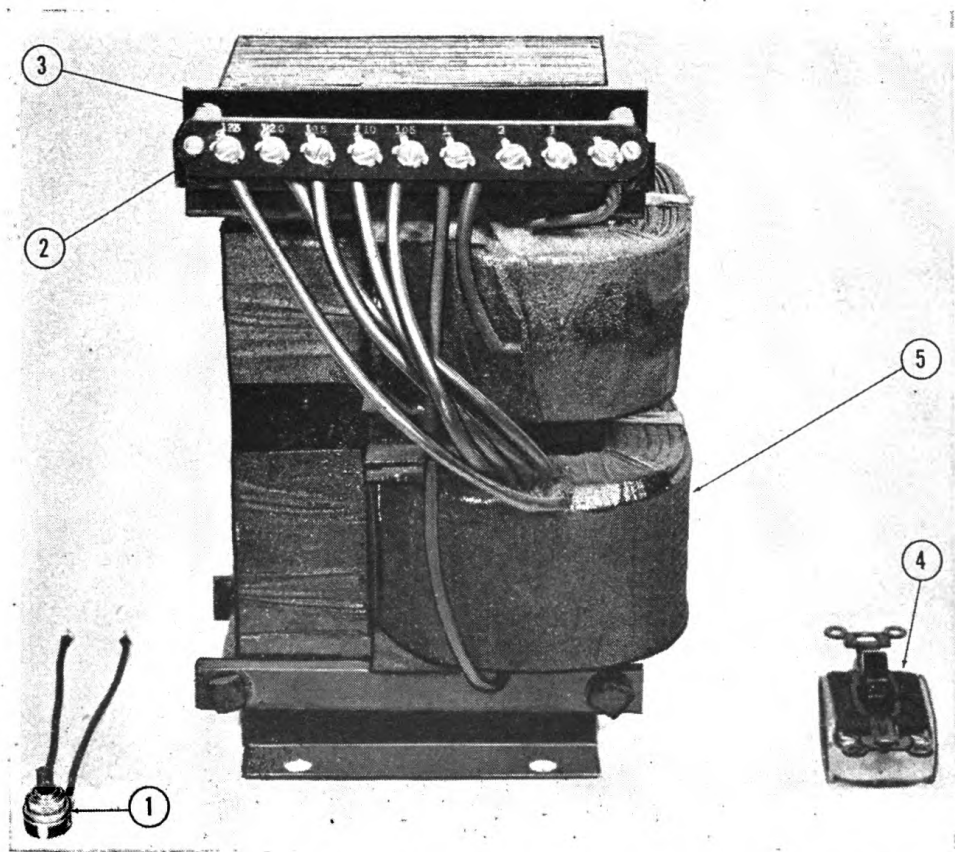


Figure 12. *Parts for lamp, therapeutic, mercury arc, air-cooled, mobile, complete, 110-volt, 60-cycle, Hanovia model.*

- | | | | |
|-------------|---|-------------|--|
| 1. 7R04238 | Board, fiber, 1 x 1 3/4 x 3/32 inch, 3/8-inch hole | 13. SR00356 | Bolt, 3/4-16 x 6 inch, square H.M. |
| 2. 7R04240 | Board, fiber, 1 x 1 3/4 x 3/32 inch, 1/4-inch hole | 14. SR00359 | Washer, lock, 3/8-inch |
| 3. 7R04242 | Washer, fiber, O.D. 3/8-inch, I.D. 5/16-inch, 7/32 inch thick | 15. SR00357 | Nut, 3/8 x 16, square |
| 4. 7R04256 | Relief, strain, line cord | 16. SR00361 | Bolt, 1/4-20 x 1 1/4 inches, square H.M. |
| 5. 7R04254 | Relief, strain, burner cord | 17. SR00293 | Washer, 1/4 inch |
| 6. 7R04258 | Spacer, O.D., 3/8-inch, I.D. 1/4 inch, 1 1/2 inches long | 18. SR00145 | Screw, 10-32 x 1 1/2 inches, R.H.M. |
| 7. SR00366 | Bolt, 5/16-18 x 2 inch, square H.M. | 19. SR00277 | Washer, shakeproof, No. 10, internal teeth |
| 8. SR00156 | Washer, lock, 5/16 inch | 20. SR00273 | Nut, 10-32, hex, brass |
| 9. SR00367 | Nut, 5/16 x 18, square | 21. SR00358 | Washer, lock, 1/2-inch |
| 10. SR00355 | Setscrew, 1/4-20 x 3/8 inch, headless M., cup point | 22. SR00151 | Washer, lock, No. 10 |
| 11. SR00372 | Screw, 6-32 x 2 inch, fl. H.M. | 23. 7R04244 | Fiber, sheet |
| 12. 7R04250 | Spacer, O.D. 3/8-inch, I.D. 1/4-inch, 3/4 inch long | 24. 7R04236 | Strap, condenser, brass |
| | | 25. 7R04218 | Washer, O.D. 3 1/8 inch, I.D. 1 1/2 inches, 1/8 inch thick |
| | | 26. 7R04248 | Board, terminal, line |
| | | 27. SR00360 | Condenser, 0.1 Mfd., 600 volts |

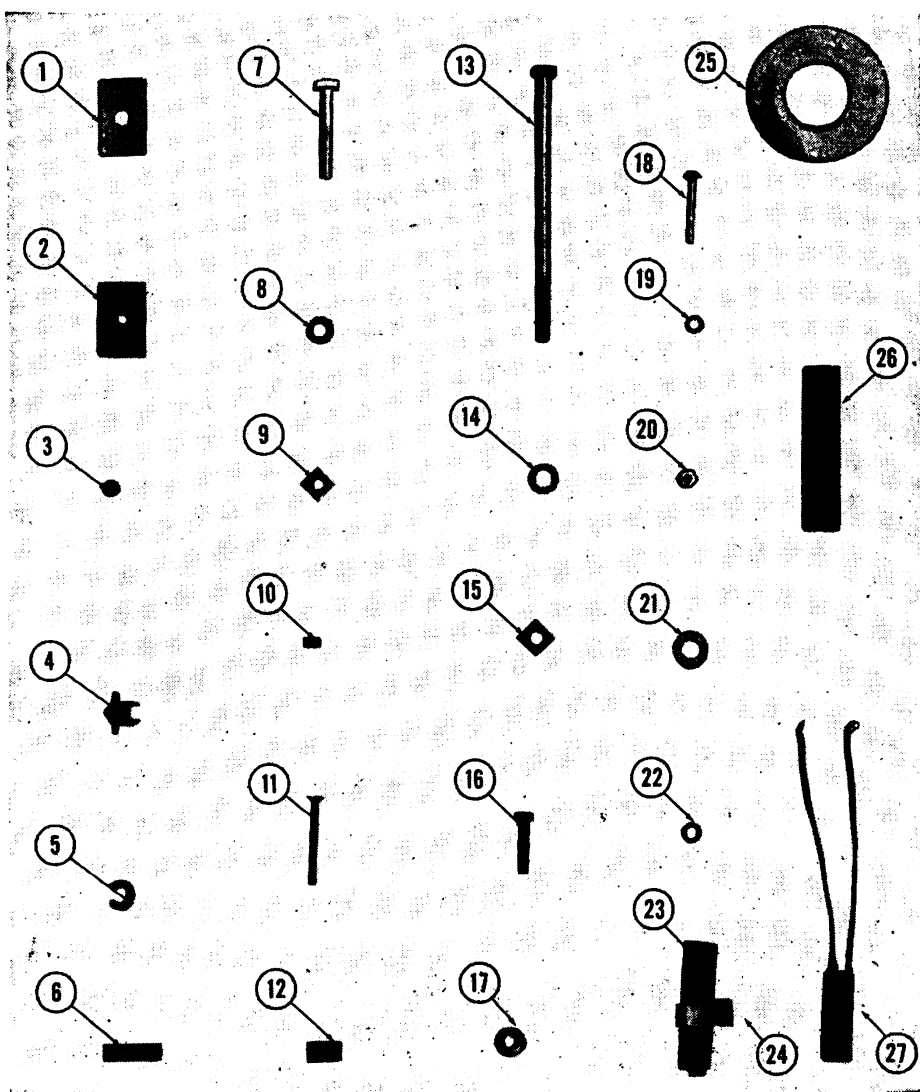


Figure 13. Parts for lamp, therapeutic, mercury arc, air-cooled, mobile, complete, 110-volt, 60-cycle, Hanovia model.

"X" to the proper terminal tap, as indicated in the table given in (a) on page 16. Replace the cover plate and toggle switch pedal by fastening with the screws that were removed.

(c) *Hanovia model*. Remove the switch plate, 7R04216 (fig. 8), by unfastening the canopy rotary starter switch lock nut (fig. 8 (30)) and the two switch-plate screws. Unfasten the screws holding the base cover plate, 7R04214 (fig. 8), and raise it to make the terminal board accessible. Connect the line lead to the proper terminal tap as indicated by the voltage markings on the terminal board, 7R04232 (fig. 12). Replace the

- | | | | |
|------------|--|------------|--|
| 1. 7R03626 | Receptacle, 3-prong, large, twist lock, polarized, Hubbell | 4. 7R03630 | Bracket, terminal board |
| 2. 7R03628 | Autotransformer, 360-watt, G.E. cat. No. 58 G 251 | 5. 7R03636 | Socket, thermal switch |
| 3. 7R03634 | Board, terminal, plastic | 6. SR00390 | Wire, No. 14, fixture, stranded |
| | | 7. 7R03716 | Switch, thermal |
| | | 8. 7R03638 | Switch, toggle, line, $\frac{7}{16}$ -inch shank |

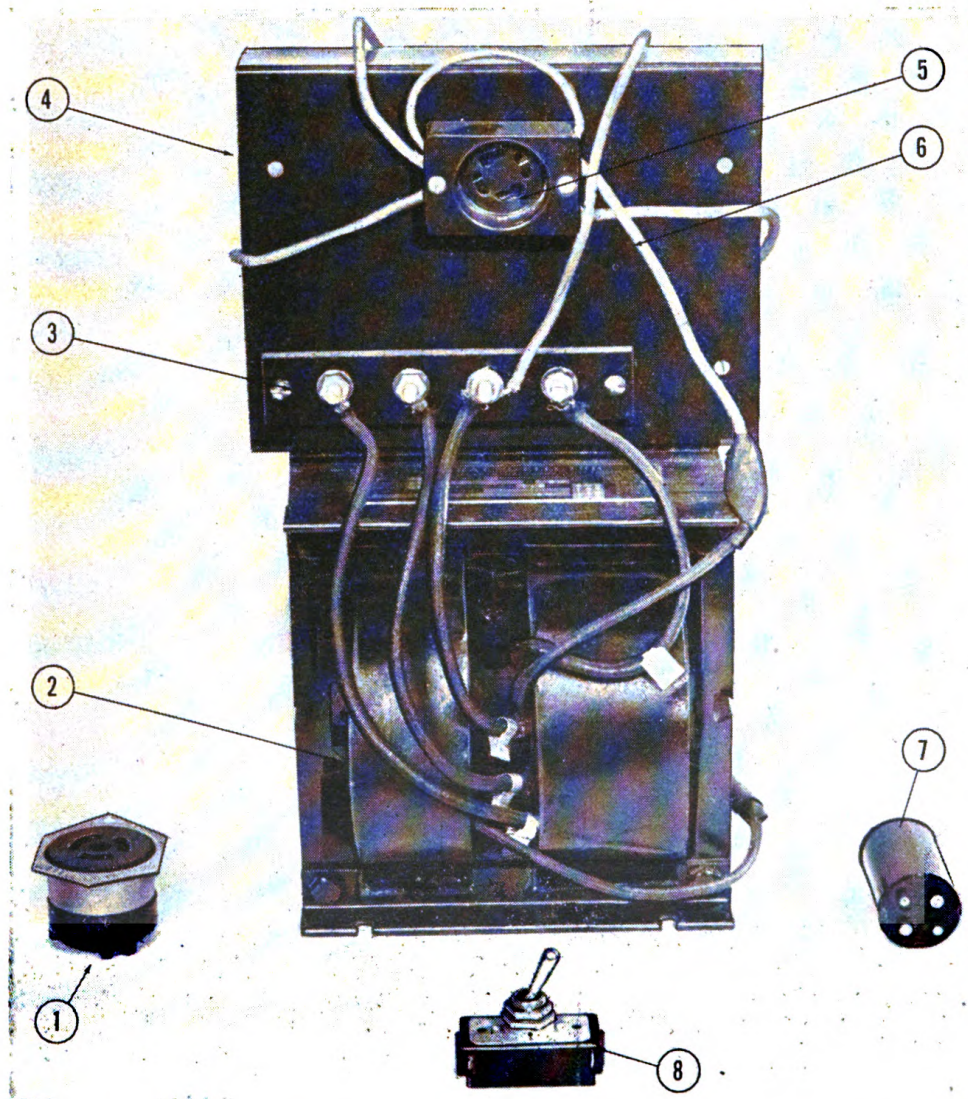


Figure 14. Parts for lamp, therapeutic, mercury arc, air-cooled, Burdick model.

base cover plate and switch plate by fastening with the screws and the lock nut that were removed.

(3) With the line toggle switch in the "off" position, check to see that the burner clips are tight and burner leads are properly connected.

(4) Both patient's and operator's eyes should always be protected by wearing protective ultraviolet spectacles, Item No. 7139000, or X-ray operator's goggles, Item No. 6031000. Failure to do so may result in an uncomfortable or dangerous case of conjunctivitis.

7. USED EQUIPMENT. To prepare used or reconditioned therapeutic lamps for operation, proceed exactly as for new equipment. (See par. 6.)

Section III. CONTROLS AND INSTRUMENTS

8. CONTROLS **a. Burdick model.** The Burdick model has a line toggle switch in the center of the cover plate on the base housing. This switch is marked "on" and "off".

b. General Electric model. The "on" and "off" switch on this model is of the foot treadle type. The "off" position is away from the white dot marked on the base housing.

c. Hanovia model. (1) Line toggle on this model is marked "on" and "off," and is located in the center of the base housing.

(2) *Rotary starting switch.* The rotary starting switch is located adjacent to the line toggle switch on the base assembly.

9. INSTRUMENTS. The therapeutic lamp employs no instruments.

Section IV. OPERATING INSTRUCTIONS

10. STARTING INSTRUCTIONS. **a.** Snap the line toggle switch to the "off" position.

(1) Line toggle switch on the Burdick model, 7R03638 (fig. 14), is marked "on" and "off".

(2) For line toggle switch on the General Electric model (fig. 6 (1)) the "off" position is away from the white dot.

(3) Line toggle switch on the Hanovia model, 7R04210 (fig. 8), is marked "on" and "off".

b. Connect burner line plugs. Ground General Electric model lamp by removing one screw holding the outlet faceplate and screw in the ground plug (fig. 5 (2)). If the conduit system is not grounded, then provide a separate ground.

c. Close burner housing shutters.

d. Snap the line toggle switch to the "on" position. A white dot on the base of the General Electric model indicates the "on" position.

e. When a bluish glow is observed in the quartz burner tube, the lamp has started. If the bluish glow is not observed in the Hanovia model, twirl the rotary starter switch, 7R04208 (fig. 8), slowly until it is started.

f. After the lamp has started, allow approximately 4 minutes for it to build up to its full operating intensity. The burner tube will then appear as a very brilliant narrow cord of blue light. Open the burner housing shutters. The lamp is then ready for use.

11. EXTINGUISHING INSTRUCTIONS. Snap the line toggle switch to the "off" position.

12. EXTINGUISHING AND RELIGHTING INSTRUCTIONS. a. Do not try to relight the lamp immediately after it has been extinguished. The burner must cool to a temperature at which the discharge can be re-established. Wait approximately 6 minutes before relighting.

b. If the lamp is to be employed for a number of successive applications, it is recommended that it be continued in operation instead of being turned off after each treatment.*

13. LAMP MANIPULATING INSTRUCTIONS. a. **Burdick model.** (1) To rotate housing about its horizontal axis, loosen the plastic friction locking lever, 7R03680 (fig. 3), adjust to desired position, and tighten the friction locking lever.

(2) To rotate the burner housing about its vertical axis, turn the burner housing fork, 7R03678 (fig. 2), to the desired position.

(3) To adjust the height of the burner housing, loosen the vertical track locking knob, 7R03656 (fig. 2), move the burner housing assembly up or down to the desired position, and tighten the vertical track locking knob.

(4) To adjust the horizontal position of the burner housing, loosen the burner housing supporting arm locking knob, slide the supporting arm in or out to the desired position, and tighten the burner housing supporting arm locking knob.

b. **General Electric model.** (1) To angulate the burner housing to any position from the vertical to horizontal, loosen the locking stud lever, 7R03956 (fig. 5), adjust to the desired position, and tighten the locking stud lever.

(2) To adjust the height of the burner housing, loosen the adjustable upright locking knob, 7R03944 (fig. 5), move the burner housing assembly up or down to the desired position and tighten the upright locking knob.

c. **Hanovia model.** (1) To move the burner housing on its horizontal axis, loosen the trunnion locking knob, 7R04360 (fig. 8), adjust to the desired position and tighten the trunnion locking knob.

(2) To rotate the burner housing on its vertical axis, loosen the rail supporting block locking knob, 7R04322 (fig. 8), turn to desired position, and tighten the rail supporting block locking knob.

(3) To adjust the height of the burner housing, loosen the vertical carriage locking knob, 7R04280 (fig. 8), move the carriage (fig. 8 (22)) up or down to the desired position, and tighten the vertical carriage locking knob.

(4) To adjust the horizontal position of the burner housing, loosen the burner housing rail locking knob, 7R04298 (fig. 8), slide the rails in or out to the desired position, and tighten the burner housing rail locking knob.

14. MEASURING THE DISTANCE BETWEEN BURNER AND PATIENT.

Use the steel tape measure located on the burner housing. The intensity of ultraviolet radiation varies inversely as the square of the distance between the burner and the patient. For example, moving the patient a distance of 30 to 15 inches from the lamp makes the radiation four times as intense, rather than twice as intense. Moving the patient three times closer would make the radiation nine times as intense. If this principle is not constantly borne in mind when positioning the patient, severe burns may result from moving him a short distance closer to the lamp.

CHAPTER 3

MAINTENANCE INSTRUCTIONS

Section I. GENERAL

15. SCOPE. Chapter 3 contains information for the guidance of the personnel of the using organization responsible for the maintenance (1st and 2nd echelon) of this equipment. It also contains information needed for the performance of the preventive maintenance service and replacement of burners.

Section II. LUBRICATION

16. BALL BEARINGS. Wear on these bearings is negligible. It is not necessary to lubricate them. Keeping them clean and free of dust and dirt is all that is necessary.

Section III. PREVENTIVE MAINTENANCE SERVICES

17. OPERATOR MAINTENANCE (1ST ECHELON). a. **Weekly.** (1) Clean the burner.

(2) Clean the reflector.

(3) Dust the entire lamp thoroughly, particularly the ball bearings.

b. **When lamp is put in operation for the first time, returned from repair, or a new burner is installed.**

(1) Clean the burner.

(2) Clean the reflector.

18. ORGANIZATIONAL MAINTENANCE (2D ECHELON). Replace burner when necessary.

Section IV. TROUBLE SHOOTING

19. IF LAMP FAILS TO LIGHT. a. Check current source to see that it agrees with the voltage and cycle data stamped on the nameplate of the lamp.

b. Check current source to see that current is available at the receptacle into which the lamp line cord is plugged.

c. Check line fuse to see that it is intact and of the proper amperage.

d. **Burdick model only.** (1) Snap the line toggle switch to the "on" position.

(2) Test to determine if current is reaching the burner, by placing a 300-volt a-c voltmeter across the burner clips. A normal "no load" voltage reading will be approximately 250 to 260 volts. If there is no voltage at the burner clips, snap the line toggle switch to the "off" position.

(3) Make the thermal switch, 7R03716 (fig. 14), accessible by unfastening the screws holding the front panel cover plate, and removing the front panel cover plate, 7R03618 (fig. 2).

(4) Tighten the thermal switch in its socket, 7R03636 (fig. 14), by rotating it slightly clockwise.

(5) Snap the line toggle switch to the "on" position and test for current at the burner clips as described above. If there is no voltage at the burner clips, remove thermal switch and replace it with a new one.

20. IF THE LAMP LIGHTS AND IMMEDIATELY EXTINGUISHES ITSELF.

If the lamp lights and immediately extinguishes itself, it is likely that a fuse in the electric supply circuit has blown. In the event that this is the cause of operating failure, replace fuse.

21. IF BURNER FAILS TO REACH NORMAL BRILLIANCY OR GOES OUT. The burner should be replaced if it fails to reach normal brilliancy or goes out and does not light after being in use over a period of time.

Section V. MAINTENANCE OPERATIONS

22. CLEANING BURNER. To clean the burner, snap the line toggle switch to the "off" position, moisten a small piece of clean cloth with either acetone (Item No. 1003000), carbon tetrachloride (Item No. 1127000), or ethyl alcohol (Item No. 1048000), gently wipe the quartz tube with the moistened cloth, and dry with a clean cloth. Never use rubbing alcohol. The cleaning solvents are listed in the order of their preference. If these solvents are not available, distilled water may be used. The burner should not be removed for cleaning. **DO NOT ALLOW** the fingers to come in contact with the quartz tube at any time. In the event that they do, clean as directed above.

23. CLEANING REFLECTOR. To clean the reflector, snap the line toggle switch to the "off" position, wipe lightly with a clean cloth slightly moistened with water, and dry with a soft clean cloth.

24. REPLACEMENT OF BURNER. **a.** Remove the spent burner by carrying out the assembling instructions *in reverse*. (See par. 6.)

(1) *Burdick model*. See paragraph 6c(10).

(2) *General Electric model*. See paragraph 6d(6).

(3) *Hanovia model*. See paragraph 6c(5).

b. Install the new burner by carrying out the assembling instructions as referred to in *a* above.

Section VI. PACKING AND STORAGE

25. DISASSEMBLING. To disassemble the lamp, carry out the assembly instructions for the respective models (par. 6c, d, and e) *in reverse*.

26. PACKING AND STORING. **a.** Disassemble the lamp into the base assembly, upright assembly, and burner housing assembly, with the burner in the burner clips.

b. Wrap each assembly in heavy protective paper. Place each assembly in a sturdily constructed wooden box of suitable size. Use sufficient bracing and packing material to protect the parts in shipment and prevent the movement of parts within the boxes. Nail the lids in place on the boxes and band with steel strapping. Fasten the steel strapping with staples.

APPENDIX

LIST OF PARTS

1. ITEM NO. 7126005, LAMP, THERAPEUTIC, MERCURY ARC, AIR-COOLED, MOBILE, GENERAL ELECTRIC X-RAY CORPORATION.

Medical Dept. No.	Nomenclature	Figure No.
10030 71390	ACETONE, ACS SPECTACLES, ULTRAVIOLET	6
	COMMON PARTS	
	<i>Base Assembly</i>	
SR00006	WIRE No. 16, FIXTURE, STRANDED, for line toggle switch	
SR00010	SCREW, 8-32 x $\frac{3}{8}$ INCH, R.H.M., for line toggle switch	10
SR00040	SCREW, 6-32 x $\frac{1}{4}$ INCH, R.H.M., for starting relay	10
SR00142	SCREW, 10-32 x $\frac{3}{4}$ INCH, R.H.M., for terminal board	
SR00144	SCREW, 10-32 x $1\frac{1}{4}$ INCH, R.H.M., for terminal board	10
SR00152	WASHER, LOCK, No. 8, for line toggle switch	6
SR00156	WASHER, LOCK, $\frac{5}{16}$ INCH, for auto- transformer mounting plate	10
SR00264	SCREW, 10-32 x $\frac{1}{4}$ INCH, B.H.M., for line cord relief spring	10
SR00294	WASHER, SHAKEPROOF, No. 8, INTERNAL TEETH, for starting relay..	10
SR00300	SCREW, 10-32 x $\frac{1}{2}$ INCH, R.H.M., for relay starting bracket	10
SR00313	SCREW, $\frac{5}{16}$ -18 x $\frac{1}{2}$ INCH, R.H.M., for autotransformer mounting plate	10
SR00314	SCREW, 10-32 x $\frac{5}{8}$ INCH, R.H.M., for terminal board	
SR00315	SETSCREW, $\frac{5}{16}$ -18 x $\frac{3}{8}$ INCH, ALLEN H.M., FLAT END, for stationary upright	
	<i>Burner cord assembly</i>	
*SR00025	PLUG, FEMALE, TWO-PRONG, G.E. G C 3C3	4
*SR00075	CORD, NEOPRENE, No. 14, TWO- CONDUCTOR	4, 5
SR00318	NUT, LOCK, CONDUIT, $\frac{1}{2}$ -INCH, for plastic bushing	4

*To be requisitioned, when required, from the supply depot. (No asterisk indicates that the item is not stocked as a spare part, but can be obtained by special requisition.)

Medical Dept. No.	Nomenclature	Figure No.
<i>Burner housing assembly</i>		
*SR00079	WIRE, FLAMENOL, No. 14, STRANDED, WHITE, for burner clamp line.....	6
SR00103	SCREW, 6-32 x $\frac{1}{8}$ INCH, R.H.M., for reflector	6
SR00115	SCREW, 8-32 x $\frac{7}{8}$ INCH, R.H.M., for burner clamp assembly	6
SR00152	WASHER, LOCK, No. 8, for burner clip assembly	6
SR00236	SCREW, 6-32 x $\frac{1}{4}$ INCH, B.H.M., for cover	6
SR00319	SCREW, 10-32 x $\frac{3}{16}$ INCH, FILL. H.M., for stationary upright collar	6
SR00320	SETSCREW, 8-32 x $\frac{5}{16}$ INCH, HEAD- LESS M, for burner cable hook.....	6
SR00321	SCREW, 10-32 x $\frac{7}{8}$ INCH, FILL. H.M., for locking stud lever assembly	6
SR00322	SCREW, 8-32 x $\frac{7}{8}$ INCH, FILL. H.M., for shutter knob	6
SR00323	SCREW, 8-32 x 1 INCH, FILL. H.M., for swivel bracket	6
SR00324	SCREW, 8-32 x $\frac{3}{4}$ INCH, FL. H.M., for steel tape measure	6
SR00325	TERMINAL, WIRE CLAMP, O.D., $\frac{3}{8}$ -INCH, $\frac{3}{16}$ -INCH HOLE, 1 INCH LONG, for burner clamp line	6
SR00326	SCREW, 6-32 x $\frac{7}{8}$ INCH, R.H.M., for burner clamp assembly	6
SR00327	WASHER, No. 6, BRASS, for burner clamp assembly	6
SR00328	WASHER, No. 8, BRASS, for burner clip assembly	6
SR00329	WASHER, No. 9, BRASS, for burner clip assembly	6
<i>Line cord assembly</i>		
*SR00026	PLUG, MALE, SMALL, TWO PRONG..	4
*SR00076	CORD, NEOPRENE, No. 14, 3-CON- DUCTOR	4
SR00316	PLUG, GROUND, MALE	4
SR00317	PLUG, GROUND, FEMALE	4, 5
<i>Miscellaneous</i>		
SR00185	NUT, 8-32, HEX, BRASS	6, 10
SR00045	SCREW, 10-32 x $\frac{3}{8}$ INCH, R.H.M.....	10
SR00151	WASHER, LOCK, No. 10	10

*To be requisitioned, when required, from the supply depot. (No asterisk indicates that the item is not stocked as a spare part, but can be obtained by special requisition:)

Medical Dept. No.	Nomenclature	Figure No.
SR00303	WASHER, No. 10, BRASS	10
SR00330	NUT, 10 x 32, HEX	10
SR00331	SCREW, 8-32 x 1/2 INCH, FILL. H.M....	6
SR00332	TERMINAL, CLAMP, WIRE O.D. 1/2- INCH, 3/16-INCH HOLE, 1 INCH LONG	4
	<i>Accessories</i>	
SR00333	WRENCH, SETSCREW, ALLEN, 5/16-INCH	6
	UNCOMMON PARTS	
	<i>Base Assembly</i>	
7R03908	BASE, CAST IRON	4
7R03910	CASTER, SWIVEL, H-13696 x 20, 3-inch wheel, Bassick	4
7R03912	PLATE, COVER, for under side of cast iron base	11
7R03914	PEDAL, LINE TOGGLE SWITCH.....	5, 10
*7R03916	SWITCH, LINE TOGGLE, G.E. No. 1689	10
*7R03918	RELAY, STARTING, G.E. No. 59-165..	10
7R03920	BRACKET, STARTING RELAY	10
7R03922	AUTOTRANSFORMER, 400-WATT, G.E. No. 59-155	4
7R03924	PLATE, AUTOTRANSFORMER MOUNTING .....	.....
7R03926	BOARD, TERMINAL	10
*7R03928	CONDENSER, WITH TERMINALS....	10
7R03930	SCREW, LINE TOGGLE SWITCH PEDAL	10
7R03932	SPACER, O.D. 1/2-INCH, I.D. 3/16-INCH, 3/16 INCH THICK, for terminal board...	10
	<i>Burner Cord Assembly</i>	
7R03938	HOOK, BURNER CORD, attached to supporting arm	4, 5
7R03940	BUSHING, PLASTIC, for burner line cord.	4
	<i>Burner Housing Assembly</i>	
*7R03902	BURNER, G.E. UA 2682.....	6, 7
7R03952	ARM, SUPPORTING, for burner housing.	4, 5
7R03954	PLATE, FRICTION, for locking stud lever.	4
7R03956	LEVER, LOCKING STUD	5, 6
7R03958	STUD, LOCKING	6
7R03960	BRACKET, SWIVEL, for burner housing.	11
7R03962	FRAME, RIGHT END, for burner housing.	11
7R03964	FRAME, LEFT END, for burner housing.	11

*To be requisitioned, when required, from the supply depot. (No asterisk indicates that the item is not stocked as a spare part, but can be obtained by special requisition.)

Medical Dept. No.	Nomenclature	Figure No.
7R03966	COVER, for burner housing	11
7R03968	REFLECTOR, BURNER	7, 11
7R03970	BOARD, BURNER CLIP, ASBESTOS...	11
7R03972	SPRING, CLIP, for end burner clips.....	6
7R03974	CLIP, BURNER END	6, 7
7R03976	CLIP, BURNER, QUARTZ TUBE	6, 7
7R03978	SHUTTER	7, 11
7R03980	ROD, SHUTTER	11
7R03982	KNOB, SHUTTER	6, 7
7R03984	SPRING, SHUTTER	6
7R03986	SPRING, QUARTZ TUBE BURNER CLIP	6
7R03988	MEASURE, TAPE, STEEL	5, 6, 7
7R03990	WASHER, O.D. $\frac{19}{32}$ -INCH, I.D. $\frac{3}{8}$ -INCH, $\frac{1}{16}$ INCH THICK, FIBER, for shutter assembly	6
7R03992	WASHER, O.D. $\frac{19}{32}$ -INCH, I.D. $\frac{3}{8}$ -INCH, $\frac{1}{32}$ INCH THICK, BRASS, for shutter assembly	6
7R03994	SCREW, 4-36 x $\frac{1}{4}$ INCH, B.H.M., for shutter assembly	6
*7R03996	PLUG, MALE, TWO-PRONG, HUB- BELL P-646, for burner cable.....	6
7R03998	SPACER, O.D. $\frac{1}{2}$ -INCH, I.D. $\frac{5}{32}$ -INCH, $\frac{1}{4}$ INCH THICK, FIBER, for burner clip assembly	6
7R04000	THUMBSCREW, 4-36 x $1\frac{1}{16}$ INCH, for burner and clip assembly.....	6
7R04002	NUT, ROUND, 4 x 36, for burner end clip thumbscrew	6
	<i>Line Cord Assembly</i>	
7R03934	BUSHING, PLASTIC, for strain release spring	4
7R03936	SPRING, STRAIN RELEASE	4
	<i>Lamp upright assembly</i>	
7R03942	UPRIGHT, STATIONARY, Outside tube..	4, 5
7R03944	UPRIGHT, ADJUSTABLE, Inside tube...	4, 5
7R03946	COLLAR, STATIONARY UPRIGHT....	4
7R03948	SPRING, ADJUSTABLE UPRIGHT.....	4
7R03950	KNOB, LOCKING, ADJUSTABLE UP- RIGHT	5, 6
	<i>Miscellaneous</i>	
7R04004	CLAMP, CABLE, for line and burner cord assemblies	4
7R04006	TERMINAL, WIRE CLAMP, G.E. No. 2034 CORD TIP.....	4

*To be requisitioned, when required, from the supply depot. (No asterisk indicates that the item is not stocked as a spare part, but can be obtained by special requisition.)

2. ITEM NO. 7126005, LAMP, THERAPEUTIC, MERCURY ARC, AIR-COOLED, MOBILE, BURDICK CORPORATION.

Medical Dept. No.	Nomenclature	Figure No.
10030	ACETONE, ACS .....	.....
71390	SPECTACLES, ULTRAVIOLET .....	.....
	COMMON PARTS	
	<i>Base assembly</i>	
SR00015	SCREW, 8-32 x 1 INCH, R.H.M., for terminal board bracket .....	.....
SR00185	NUT, 8 x 32, HEX, BRASS.....	.....
*SR00026	PLUG, MALE, SMALL, TWO-PRONG..	.....
*SR00075	CORD, NEOPRENE, No. 14, TWO-CONDUCTOR .....	.....
SR00107	SCREW, 6-32 x 1/2 INCH, R.H.M., for base housing .....	.....
SR00130	SCREW, 6-32 x 3/8 INCH, O.H.M., for base housing .....	.....
SR00140	SCREW, 10-32 x 1/4 INCH, R.H.M., for base housing .....	.....
SR00152	WASHER, LOCK, No. 8, for terminal board .....	.....
SR00229	WASHER, LOCK, 1/4-INCH, for mounting transformer .....	.....
SR00293	WASHER, 1/4-INCH, for fastening base housing .....	.....
SR00378	SETSCREW, 5/16-18 x 3/4 INCH, SQUARE H.M., CUP POINT, for lamp upright .....	.....
SR00379	BOLT, 5/16-18 x 1 INCH, HEX H.M., for handle bar .....	.....
SR00380	SCREW, 1/4-20 x 2 INCH, R.H.M., For fastening base housing .....	.....
SR00381	NUT, THUMB, 1/4 x 20, WING, for fastening base housing .....	.....
SR00382	SCREW, 1/4-20 x 3/4 INCH, FILL, H.M., for mounting transformer .....	.....
SR00383	NUT, LOCK, CONDUIT, 3/4-INCH, for line porcelain bushing .....	.....
SR00384	SCREW, 4-40 x 1/4 INCH, R.H.M., for line toggle switch.....	.....
SR00385	NUT, 4 x 40, HEX, for line toggle switch.....	.....
SR00386	SETSCREW, 10-24 x 3/8 INCH, HEADLESS, CUP POINT, for cast iron cover plate	
SR00387	SCREW, 10-24 x 3/4 INCH, R.H.M., for terminal board bracket	

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Medical Dept. No.	Nomenclature	Figure No.
SR00388	SCREW, 10-24 x 1 INCH, R.H.M., for terminal board bracket	14
SR00389	SCREW, 6-32 x 1¼ INCH, R.H.M., for terminal board bracket	
*SR00390	WIRE, No. 14, FIXTURE, STRANDED..	
	<i>Burner housing assembly</i>	
SR00014	SETSCREW, ¼-20 x ¼ INCH, HEAD- LESS, CUP POINT, for supporting arm plastic knob	2
SR00125	SCREW, 8-32 x ¾ INCH, O.H.M., BRASS, for shutter clamp.....	
SR00369	BOLT, 5/16-18 x 1¼ INCH, HEX H.M., for side plate with spacer nut.....	
SR00393	WASHER, 5/16 INCH, FIBER, for support- ing arm	2
SR00394	WASHER, 5/16 INCH, BRASS, for support- ing arm	
SR00395	SETSCREW, 8-32 x 3/16 INCH, HEAD- LESS M. CUP POINT, for supporting arm nut	
SR00396	NUT, CAP, 5/16 x 18, HEX, for burner housing assembly	2
*SR00397	PLUG MALE, LARGE, THREE PRONG, POLARIZED, TWIST LOCK, HUBBELL	
*SR00398	CORD, 3-CONDUCTOR, No. 14, ASBESTOS PACKED, for burner line..	
SR00003	SCREW, 8-32 x ½ INCH, R.H.M., for carriage assembly	31
SR00106	SCREW, 6-32 x 5/16 INCH, R.H.M., for upright column	
SR00391	SETSCREW, ¼-20 x ¼ INCH, ALLEN H., CUP POINT, for upright column collar	
SR00392	SCREW, ¼-20 x 5/8 INCH, FILL. H.M., for carriage ball bearings.....	31
	<i>Miscellaneous parts</i>	
SR00040	SCREW, 6-32 x ¼ INCH, R.H.M.....	
SR00043	NUT, 6 x 32, HEX.....	31
SR00105	SCREW, 6-32 x 3/8 INCH, R.H.M.....	
SR00106	SCREW, 6-32 x 5/16 INCH, R.H.M.....	
SR00151	WASHER, LOCK No. 10.....	31
SR00153	WASHER, LOCK No. 6.....	
SR00279	WASHER, 3/8-INCH, BRASS.....	
SR00293	WASHER, ¼ INCH	31
SR00297	WASHER, No. 10.....	

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Medical Dept. No.	Nomenclature	Figure No.
SR00303	WASHER, No. 10, BRASS.....	
SR00388	SCREW, 10-24 x 1 INCH, R.H.M.....	
SR00400	NUT, 10 x 24, HEX BRASS.....	
SR00401	NUT, THUMB, BATTERY TERMINAL, 6 x 32, BRASS.....	3
	UNCOMMON PARTS	
	<i>Base assembly</i>	
7R03608	BASE, CAST IRON.....	2
7R03610	CASTER, SWIVEL, 3-INCH WHEEL...	2
7R03612	HOUSING, BASE, SHEET-METAL, COMPLETE, assembly	2
7R03614	PLATE, COVER, BOTTOM, SHEET- METAL, for under side of base housing..	
7R03616	PLATE, COVER, CAST IRON, COM- PLETE, Assembly for top of base housing	2
7R03618	PLATE, COVER, FRONT PANEL, SHEET-METAL, for base housing.....	2
7R03620	CLAMP, LINE CORD	
7R03622	SHIELD, LINE CORD, SHEET-METAL.....	
7R03624	BUSHING, PORCELAIN, for line cord...	
*7R03626	RECEPTACLE, THREE PRONG, LARGE TWIST LOCK, POLARIZED, HUBBELL	14
7R03628	AUTOTRANSFORMER, 360-WATT, G.E. No. 58 G 251.....	14
7R03630	BRACKET, TERMINAL BOARD, On autotransformer.....	14
7R03632	SPACER, O.D. 1/2-INCH, I.D. 5/16 INCH. 7/16 INCH LONG, for terminal board.....	
7R03634	BOARD, TERMINAL, PLASTIC.....	14
7R03636	SOCKET, THERMAL SWITCH, on terminal board bracket	14
*7R03638	SWITCH, TOGGLE, LINE, 7/16-INCH SHANK	14
*7R03716	SWITCH, THERMAL, Burdick Uviarc cutout	14
7R03720	HANDLE BAR	2
7R03602	BURNER, Burdick HB-455	3
7R03670	KNOB, SUPPORTING ARM, PLASTIC..	2
7R03672	ARM, SUPPORTING, COMPLETE, assembly for burner housing.....	2
7R03674	BUSHING, O.D. 1/2-INCH, I.D. 5/16-INCH, 3/16 INCH THICK, for burner housing fork	
7R03676	NUT, 5/16 x 18 HEX, tapped 8 x 32 for set- screw, used on supporting arm.....	

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Medical Dept. No.	Nomenclature	Figure No.
7R03678	FORK, for burner housing.....	2
*7R03680	LEVER, FRICTION LOCKING, PLAS- TIC, for burner housing.....	3
7R03682	SPRING, STRAIN RELIEF, for burner cord	
7R03684	BUSHING, STRAIN RELIEF, for burner cord	
7R03686	REFLECTOR, COMPLETE, assembly....	3
7R03688	BRACKET, BURNER CLIP.....	
7R03690	CLIP, BURNER	3
7R03692	SCREW, THUMB, 6-32 x $\frac{3}{4}$ INCH, for burner clip	3
7R03694	BUSHING, INSULATING, for burner lead binding post and burner clips.....	
7R03696	WASHER, O.D. $\frac{9}{16}$ -INCH, I.D. $\frac{3}{8}$ -INCH, $\frac{1}{8}$ INCH THICK, FIBER, for burner lead binding post and burner clips.....	
7R03700	MEASURE, TAPE, STEEL	3
7R03702	HOUSING, BURNER, SHEET-METAL, with outside plates and ventilator top....	2
7R03704	PLATE, SIDE, for burner housing.....	2
7R03706	PLATE, SIDE, WITH SPACER NUT, COMPLETE, assembly	3
7R03708	NUT, SPACER, $\frac{5}{16}$ x 18, ROUND, O.D. $1\frac{1}{8}$ INCH, $\frac{9}{16}$ INCH THICK, for side plate	
7R03710	VENTILATOR, BURNER HOUSING TOP, COMPLETE, assembly.....	2
7R03712	SHUTTER	2
7R03714	ROD, SHUTTER, COMPLETE, assembly.	3
7R03715	CLAMP, SHUTTER ROD.....	3
	<i>Upright and carriage assembly</i>	
7R03640	COLUMN, UPRIGHT	2
7R03642	COLLAR, UPRIGHT COLUMN	2
7R03644	TRACK, UPRIGHT, COMPLETE, assembly	2
7R03646	PULLEY, WHEEL	2
7R03648	AXLE, PULLEY	
7R03650	FORK, PULLEY	2
7R03652	CABLE, STEEL, STRANDED	2
7R03654	COUNTERWEIGHT, in upright column....	
7R03656	CARRIAGE, CAST IRON.....	2
7R03658	BEARING, BALL, NICE 402-2, for car- riage assembly	2
7R03660	SPACER, O.D. $\frac{5}{16}$ -INCH, I.D. $\frac{1}{4}$ -INCH, $\frac{1}{16}$ INCH THICK, for carriage assembly.	

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Medical Dept. No.	Nomenclature	Figure No.
7R03662	BRAKE, BURNER HOUSING SUP- PORTING ARM	
*7R03664	KNOB, LOCKING, BURNER HOUS- ING SUPPORTING ARM .....	.....
7R03666	BRAKE, VERTICAL TRACK.....	.....
7R03668	KNOB, LOCKING, VERTICAL TRACK..	2

**3. ITEM No. 7126005, LAMP, THERAPEUTIC, MERCURY ARC, AIR-
COOLED, MOBILE, HANOVIA CHEMICAL AND MANUFACTURING
COMPANY.**

Medical Dept. No.	Nomenclature	Figure No.
10030	ACETONE, ACS .....	.....
71390	SPECTACLES, ULTRAVIOLET .....	.....
	COMMON PARTS	
	<i>Base assembly</i>	
*SR00026	PLUG, MALE, SMALL, TWO-PRONG..	.....
SR00040	SCREW, 6-32 x ¼ INCH, R.H.M., for switch plate .....	.....
SR00105	SCREW, 6-32 x ⅜ INCH, R.H.M., for transformer terminal board.....	.....
SR00145	SCREW, 10-32 x 1½ INCH, R.H.M., for line terminal board	13
SR00156	WASHER, LOCK, ⅝ INCH, for upright support tube	13
*SR00195	PLUG, FEMALE, TWIST LOCK, HUBBELL, 7464	8
SR00229	WASHER, LOCK, ¼-INCH, for trans- former mounting .....	.....
SR00230	NUT, ¼ x 20, HEX, for transformer mounting .....	.....
SR00273	NUT, 10-32, HEX, BRASS, for line terminal board	13
SR00293	WASHER, ¼-INCH, for transformer mounting	13
SR00303	WASHER, No. 10, BRASS, for line terminal board .....	.....
SR00355	SETSCREW, ¼-20 x ⅜ INCH, HEAD- LESS M., CUP POINT, for swivel casters	13
SR00356	BOLT, ⅜-16 x 6 INCH, SQUARE H.M., for counter weights in base.....	13

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Medical Dept. No.	Nomenclature	Figure No.
SR00357	NUT, $\frac{3}{8}$ x 16, SQUARE, for counter weights in base	13
SR00358	WASHER, LOCK, $\frac{1}{2}$ -INCH, for starter switch	13
SR00359	WASHER, LOCK, $\frac{3}{8}$ -INCH, for counter weights	13
*SR00360	CONDENSER, 0.1 MFD., 600-VOLT, D.C.	13
SR00361	BOLT, $\frac{1}{4}$ -20 x $1\frac{1}{4}$ INCH, SQUARE H.M., for transformer mounting.....	13
SR00366	BOLT, $\frac{5}{16}$ -18 x 2 INCH, SQUARE H.M., for upright support tube.....	13
SR00367	NUT, $\frac{5}{16}$ x 18, SQUARE, for upright support tube	13
SR00368	SCREW, 10-32 x $\frac{7}{8}$ INCH, R.H.M., BRASS, for line terminal board.....	
	<i>Burner housing assembly</i>	
*SR00078	WIRE, FLAMENOL, No. 14, STRANDED, BLACK, for burner lines	
SR00109	SCREW, 6-32 x 1 INCH, R.H.M., for porcelain terminal blocks	
*SR00191	PLUG, MALE, TWIST LOCK, HUB-BELL XT 7465, for burner line cord....	8
SR00369	BOLT, $\frac{5}{16}$ -18 x $1\frac{1}{4}$ INCH, HEX H.M., for trunnion assembly	
SR00267	WASHER, SCREW TYPE, SIZE $\frac{1}{4}$, FIBER, for	
SR00404	WASHER, $\frac{5}{16}$ -INCH, for trunnion assemblies	
	<i>Upright and carriage assembly</i>	
SR00147	PIN, COTTER, $\frac{1}{16}$ -INCH DIA. x $\frac{3}{4}$ INCH, for rail looking knob.....	
	<i>Miscellaneous parts</i>	
SR00003	SCREW, 8-32 x $\frac{1}{2}$ INCH, R.H.M.....	
SR00010	SCREW, 8-32 x $\frac{3}{8}$ INCH, R.H.M.....	
SR00015	SCREW, 8-32 x 1 INCH, R.H.M.....	
SR00017	NUT, 8-32, HEX	
SR00043	NUT, 6-32, HEX	
SR00045	SCREW, 10-32 x $\frac{3}{8}$ INCH, R.H.M.....	
*SR00075	CORD, NEOPRENE, No. 14, TWO-CONDUCTOR	8
SR00111	SCREW, 8-32 x $\frac{1}{4}$ INCH, R.H.M.....	
SR00114	SCREW, 8-32 x $\frac{3}{4}$ INCH, R.H.M.....	
SR00142	SCREW, 10-32 x $\frac{3}{4}$ INCH, R.H.M.....	

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Medical Dept. No.	Nomenclature	Figure No.
SR00151	WASHER, LOCK, No. 10.....	13
SR00158	WASHER, SHAKEPROOF, No. 6, INTERNAL TEETH	
SR00229	WASHER, LOCK, ¼ INCH.....	
SR00277	WASHER, SHAKEPROOF, No. 10, INTERNAL TEETH	13
SR00294	WASHER, SHAKEPROOF, No. 8, INTERNAL TEETH	
SR00297	WASHER, No. 10	
SR00300	SCREW, 10-32 x ½ INCH, R.H.M.....	
SR00314	SCREW, 10-32 x ⅝ INCH, R.H.M.....	
SR00330	NUT, 10 x 32 HEX	
SR00372	SCREW, 6-32 x 2 INCH, FL.H.M.	13
SR00374	WIRE, No. 14, COPPER, SOLID, INSULATED	
SR00375	WIRE, No. 16, COPPER SOLID INSULATED	
SR00376	NUT CAP, 10-X 32, HEX, BRASS.....	
UNCOMMON PARTS		
<i>Base Assembly</i>		
*7R04208	SWITCH, CANOPY ROTARY STARTER, ⅜-INCH SHANK, LEVITON	8, 12
*7R04210	SWITCH, LINE TOGGLE, HUBBELL P 1650	8, 12
7R04212	CASTER, SWIVEL, 3-INCH WHEEL..	8
7R04214	PLATE, BASE COVER, for top of base assembly	8
7R04216	PLATE, SWITCH	8
7R04218	WASHER, O.D. 3⅛-INCH, I.D. 1½- INCH, ⅛-INCH THICK, for upright opening on base cover plate.....	8
7R04220	CYLINDER, BASE HOUSING	8
7R04222	BRACKET, STARTER SWITCH	
7R04224	BRACKET, LINE TOGGLE SWITCH..	
7R04226	BASE, LINE TOGGLE SWITCH.....	
7R04228	COUNTERWEIGHT, BASE	
7R04230	TRANSFORMER	12
7R04232	BOARD, TERMINAL, TRANSFORMER, COMPLETE, assembly	12
7R04234	SPACER, FIBER, O.D. ⅜ INCH, 1½ INCH LONG, for transformer terminal board	12
7R04236	STRAP, CONDENSER, BRASS	13
7R04238	BOARD, FIBER, 1 INCH x 1¾ INCH x ⅜ INCH, ⅜ INCH HOLE, for transformer mounting	13

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Medical Dept. No.	Nomenclature	Figure No.
7R04240	BOARD, FIBER, 1 INCH x 1 $\frac{3}{4}$ INCH x $\frac{3}{32}$ INCH, $\frac{1}{4}$ INCH HOLE, for transformer mounting	13
7R04242	WASHER, FIBER, O.D. $\frac{3}{8}$ INCH, I.D. $\frac{5}{16}$ INCH, $\frac{7}{32}$ INCH THICK, for transformer mounting	13
7R04244	FIBER, SHEET, for condenser.....	13
7R04246	TUBE, UPRIGHT SUPPORT, CAST IRON.....	13
7R04248	BOARD, TERMINAL, LINE.....	13
7R04250	SPACER, O. D. $\frac{3}{8}$ -INCH, I. D. $\frac{1}{4}$ -INCH $\frac{3}{4}$ -INCH LONG, for line terminal board..	13
7R04252	BASE, CAST IRON.....	8
7R04254	RELIEF, STRAIN, BURNER CORD....	13
7R04256	RELIEF, STRAIN, LINE CORD.....	13
7R04258	SPACER, O. D. $\frac{3}{8}$ -INCH, I. D. $\frac{1}{4}$ -INCH, 1 $\frac{1}{4}$ -INCH LONG, for starter and line toggle switch.	13
	<i>Burner Housing Assembly</i>	
7R04314	BLOCK, RAIL SUPPORT, attached to burner housing fork.....	8
7R04316	RAIL, BURNER HOUSING.....	8
7R04318	SPACER, BURNER HOUSING RAIL....	8
7R04320	BUMPER, BURNER HOUSING RAIL, RUBBER	
*7R04322	KNOB, RAIL-SUPPORTING BLOCK LOCKING	8
7R04324	FORK, for burner housing.....	8
7R04326	BUSHING, TRUNNION CLAMP, O. D. $\frac{7}{16}$ INCH, I.D. $\frac{5}{16}$ INCH, $\frac{5}{8}$ INCH LONG:	
7R04328	MEASURE, TAPE, STEEL.	
7R04330	BOLT, $\frac{5}{16}$ -18 x $\frac{3}{4}$ -INCH, HEX H. M., for fastening steel tape measure.....	
7R04332	BUSHING, TRUNNION, O. D. $\frac{7}{16}$ -INCH, I. D. $\frac{5}{16}$ -INCH, $\frac{7}{32}$ LONG.....	
7R04334	HOOD, SHEET-METAL.....	8
*7R04336	BURNER: Hanovia S-2051.....	9
7R04338	SHIELD, BURNER END.....	9
7R04340	REFLECTOR, BURNER.....	9
7R04342	BRACKET, BURNER, COMPLETE, assembly with clamps.....	9
7R04344	BRACKET, for complete burner bracket assembly.	
7R04346	BLOCK, TERMINAL, PORCELAIN, for burner lugs.	9

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Medical Dept. No.	Nomenclature	Figure No.
7R04348	BUSHING, PLASTIC, for burner line cord.	
7R04350	NUT, LOCK, CONDUIT, for burner line cord plastic bushing.	
7R04352	SPRING, BURNER CLIP.	
7R04354	TRUNNION, CLAMP, for burner hous- ing.	8
7R04356	TRUNNION, for burner housing.	
7R04358	PLATE, FRICTION, TRUNNION CLAMP.	8
*7R04360	KNOB, TRUNNION LOCKING.	8
7R04362	SHUTTER.	8
7R04364	ROD, SHUTTER.	
7R04366	CLAMP, SHUTTER ROD.	
7R04368	REFLECTOR, SHUTTER.	
7R04370	STRIP, TWO HOLE TAPPED, for shutter rod clamp.	
*7R04372	KNOB, SHUTTER.	8
7R04374	BOARD, TERMINAL, BURNER HOUS- ING.	
	<i>Upright and Carriage Assembly</i>	
7R04260	PLATE, RIGHT-HAND SIDE CARRIAGE	8
7R04262	PLATE, LEFT-HAND SIDE CARRIAGE	
7R04264	SHAFT, ROLLER, COMPLETE, assembly for carriage.	
7R04266	BEARING, BALL, for burner housing rail..	
7R04268	SPACER, METAL, COMPLETE, assem- bly for carriage.	
7R04270	AXLE, for burner housing rollers.	8
7R04272	GUIDE, ROLLER, for burner housing rail..	
7R04274	BRACKET, VERTICAL CARRIAGE LOCK.	
7R04276	GUIDE, VERTICAL CARRIAGE LOCK, PLASTIC.	
7R04278	SHOE, LOCKING, PLASTIC, for vertical carriage lock.	
*7R04280	KNOB, VERTICAL CARRIAGE LOCK- ING.	8
7R04282	COLLAR STOP, PLASTIC, for vertical carriage travel.	
7R04284	SPACER, O. D. 1/2-INCH, I. D. 1/4-INCH, 1/2 INCH LONG, for vertical carriage locking knob.	
7R04286	HOOK, BURNER CABLE:	8
7R04288	WASHER, O. D. 3/4-INCH, I. D. 1/4-INCH, 1/16 INCH THICK, for burner housing rail locking knob.	

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Medical Dept. No.	Nomenclature	Figure No.
7R04290	WASHER, O. D. $\frac{3}{4}$ -INCH, I. D. $\frac{1}{4}$ -INCH, $\frac{1}{16}$ -INCH THICK, FIBER, for burner housing rail locking knob.....	
7R04292	SPRING RETAINER, for burner housing rail locking knob. ....	.....
7R04294	BRAKE, SHOE, PLASTIC, for burner housing rail. ....	.....
7R04296	SPACER, O. D. $\frac{3}{8}$ -INCH, I. D. $\frac{1}{4}$ -INCH, $\frac{5}{16}$ -INCH LONG, for housing rail-lock- ing knob. ....	.....
*7R04298	KNOB, BURNER HOUSING RAIL LOCKING	8
7R04300	CABLE, STRANDED, STEEL, for car- riage.	8
7R04302	ROD, LOCKING CARRIAGE, STEEL $\frac{3}{8}$ -INCH DIA., 39 INCHES LONG.....	8
7R04304	UPRIGHT, TUBE, 6 FEET:.....	8
7R04306	COLLAR, LOCKING CARRIAGE ROD..	8
7R04308	WHEEL, PULLEY: .....	.....
7R04310	HOUSING, PULLEY WHEEL, CAST IRON	8
7R04312	COUNTERWEIGHT, CARRIAGE, in upright tube.	
7R04376	ANCHOR, CABLE	

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